SC-D381
SC-D382
SC-D383
SC-D385

Digital Video Camcorder
user manual

imagine the possibilities

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To receive more complete service, please register your product at

www.samsung.com/global/register

SAMSUNG

key features of your miniDV camcorder

FEATURES OF YOUR NEW MINIDV CAMCORDER

Digital Data Transfer Function with IEEE1394

By incorporating the IEEE 1394 (i.LINK™: i.LINK is a serial data transfer protocol and interconnectivity system, used to transmit DV data) high speed data transport port, both moving and photo images can be transferred to a PC, making it possible to produce or edit various images.

USB Interface for Digital Image Data Transfer (SC-D383/D385 only)

You can transfer images to a PC using the USB interface without an add-on card.

Photo Recording on a Tape

You can record a photo image on a tape.

680K pixel CCD (SC-D383/D385 only)

Your camcorder incorporates a 680K pixel CCD. Photo images can be recorded to a memory card.

1200x Digital Zoom

Allows you to magnify an image up to 1200 times its original size.

Audio Enhancement

Provides more powerful sound with the Real Stereo and Audio Effect features.

Color TFT LCD

A high-resolution color TFT LCD gives you clean, sharp images as well as the ability to review your recordings immediately.

Digital Image Stabilizer (DIS)

The DIS compensates for any hand shaking, reducing unstable images particularly at high magnification.

Various Visual Effects

The Visual Effects allow you to give your films a special look by adding various special effects.

Back Light Compensation (BLC)

The BLC function compensates for a bright background behind a subject you're recording.

Program AE

The Program AE enables you to alter the shutter speed and aperture to suit the type of scene/action to be filmed.

High Power Zoom Lens

Power Zoom lens allows users to magnify the subject clearly up to 34x.

Digital Still Camera Function (SC-D383/D385 only)

- Using a memory card, you can easily record and playback standard photo images.
- You can transfer standard photo images on the memory card to your PC using the USB interface.

Moving Image Recording on a Memory Card (SC-D383/D385 only)

Moving image recording makes it possible to record video onto a memory card.

MMC/SD card slot (SC-D383/D385 only)

MMC/SD card slot can use MMC (Multi Media Cards) and SD cards.

safety warnings

What the icons and signs in this user manual mean :

WARNING	Means that death or serious personal injury is a risk.
CAUTION	Means that there is a potential risk for personal injury or material damage.
CAUTION	To reduce the risk of fire, explosion, electric shock, or personal injury when using your miniDV camcorder, follow these basic safety precautions:
	Means hints or referential pages that may be helpful when operating the miniDV camcorder.

These warning signs are here to prevent injury to you and others.
Please follow them explicitly. After reading this section, keep it in a safe place for future reference.

important safety instructions

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSID
EREFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol indicates that dangerous voltage consisting a risk of electric shock is present within this unit.

This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

Warning
To Reduce The Risk Of Fire Or Electric Shock, Do Not Expose This Apparatus To Rain Or Moisture."

Caution
Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus. To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

important safety instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachment/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

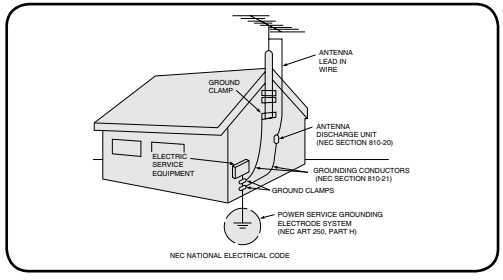
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
16. VENTILATION:
    Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the CAMCORDER and to protect it from overheating. These openings must not be blocked or covered. Never place your CAMCORDER on a bed, sofa, rug, or other similar surface: on or near a radiator or heat register. This CAMCORDER should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

17. POWER SOURCES:
The CAMCORDER should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supply at your home, consult your appliance dealer or local power company. A CAMCORDER is intended to be operated from battery power, or other sources, refer to the operating instructions.

18. GROUNDING OR POLARIZATION:
This CAMCORDER may be equipped with either a polarized 2-wire AC line plug (a plug having one blade wider than the other) or a 3-wire grounding type plug, a plug having a third (grounding) pin. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your outlet. Do not defeat the safety purpose of the polarized plug.

19. POWER-CORD PROTECTION:
Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords or plugs, convenient receptacles, and the point where they exit from the unit.

20. OUTDOOR ANTENNA GROUNDING:
CAMCORDER, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges, Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire and supporting structure, grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding to conductors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode.
See figure below.



21. LIGHTNING:
For added protection of this CAMCORDER during a lightning storm or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the CAMCORDER due to lightning and powerline surges.

important safety instructions

22. POWER LINES:
An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

23. OVERLOADING:
Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

24. OBJECTS AND LIQUIDS:
Never push objects of any kind into this CAMCORDER through openings as they may touch dangerous voltage points or short out a part that could result in a fire or electric shock. Never spill liquids of any kind onto the CAMCORDER. Should spillage occur, unplug unit and have it checked by a technician before use.

25. SERVICING:
Do not attempt to service this CAMCORDER yourself. Opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

26. DAMAGE REQUIRING SERVICE:
Unplug this CAMCORDER from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. When the power-supply cord or plug is damaged.
b. If any liquid has been spilled onto, or objects have fallen into the CAMCORDER.
c. If the CAMCORDER has been exposed to rain or water.
d. If the CAMCORDER does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the CAMCORDER to its normal operation.
e. If the CAMCORDER has been dropped or the cabinet has been damaged.
f. When the CAMCORDER exhibits a distinct change in performance, this indicates a need for service.

27. REPLACEMENT PARTS:
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer and having the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

28. SAFETY CHECK:
Upon completion of any service or repairs to this CAMCORDER, ask the service technician to perform safety checks to determine that the CAMCORDER is in safe operating order.

29. To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or moisture.

30. If this power supply is used at 240V ac, a suitable plug adaptor should be used.

31. This product is covered by one or more of the following U.S. patents:
5,060,220 5,457,669 5,561,649 5,705,762 5,987,417 6,043,912 6,222,983 6,272,096 6,377,524 6,377,531 6,385,587 6,389,570 6,408,408 6,466,532 6,473,736 6,477,501 6,480,829 6,556,520 6,556,521 6,556,522 6,578,163 6,594,208 6,631,110 6,658,588 6,674,697 6,674,957 6,687,455 6,697,307 6,707,985 6,721,243 6,721,493 6,728,474 6,741,535 6,744,713 6,744,972 6,765,853 6,765,853 6,771,890 6,771,891 6,775,465 6,778,755 6,788,629 6,788,630 6,795,637 6,810,201 6,862,256 6,868,054 6,894,963 6,937,552

USER INSTALLER CAUTION:
Your authority to operate this FCC certified equipment could be voided if you make changes or modifications not expressly approved by this party responsible for compliance to part 15 FCC rules.

NOTE:
(Hg) LAMP(S) INSIDE THIS PRODUCT CONTAIN MERCURY AND MUST BE RECYCLED OR DISPOSED OF ACCORDING TO LOCAL, STATE OR FEDERAL LAWS. For details see lamprecycle.org, eiae.org, or call 1-800-Samsung (7267864)

CALIFORNIA USA ONLY
This Perchlorate warning applies only to primary CR (Manganese Dioxide) Lithium coin cells in the product sold or distributed ONLY in California USA
" Perchlorate Material - special handling may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate."

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help and for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems." This Booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

FCC Warning
The user is cautioned that changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.
This device complies with Part 15 of FCC Rules.
Operation is subject to the following two conditions;
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

precautions

Warning!

- This camcorder should always be connected to an AC outlet with a protective grounding connection.
- Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

Caution

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

If this power supply is used at 240V ac, a suitable plug adaptor should be used.

notes and safety instructions

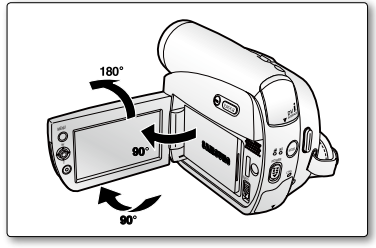
NOTES REGARDING THE VIDEO HEAD CLEANING

- To ensure normal recording and a clear picture, clean the video heads regularly.
  If a square block-shape distorts playback, or only a blue screen is displayed, the video heads may be dirty.
  If this happens, clean the video heads with a dry type cleaning cassette.
- Do not use a wet-type cleaning cassette. It may damage the video heads.

ADJUSTING THE LCD SCREEN

Please rotate the LCD screen carefully as illustrated. Over rotation may cause damage to the inside of the hinge that connects the LCD screen to the camcorder.

1. Open the LCD screen 90 degrees from the camcorder with your finger.
2. Rotate it to the best angle to record or play.
   - If you rotate the LCD screen 180 degrees so it is facing forward, you can close the LCD screen with the display facing out.
   - This is convenient during playback operations.



Refer to page 31 to adjust brightness and color of the LCD screen.

NOTES REGARDING THE LCD SCREEN

- Direct sunlight can damage the LCD screen and the inside of the the Lens. Take pictures of the sun only in low light conditions, such as at dusk.
- The LCD screen has been manufactured using high precision technology. However, there may be tiny dots (red, blue or green in color) that appear on the LCD screen. These dots are normal and do not affect the recorded picture in any way.
- Do not pick up the camcorder by holding the LCD screen or battery pack.

SERVICING & REPLACEMENT PARTS

- Do not attempt to service this camcorder yourself.
- Opening or removing covers may expose you to dangerous voltage or other hazards.
- Refer all servicing to qualified service personnel.
- When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer and having the same characteristics as the original part.
- Unauthorized substitutions may result in fire, electric shock or other hazards.

NOTES REGARDING CAMCORDER

- Do not leave the camcorder exposed to high temperatures (above 60 °C or 140 °F). For example, in a parked car in the sun or exposed to direct sunlight.
- Do not let the camcorder get wet. Keep the camcorder away from rain, sea water, and any other form of moisture. If the camcorder gets wet, it may get damaged. Sometimes a malfunction due to exposure to liquids cannot be repaired.
- A sudden rise in atmospheric temperature may cause condensation to form inside the camcorder.
  - When you move the camcorder from a cold location to a warm location (e.g. from outside to inside during the winter.)
  - When you move the camcorder from a cool location to a hot location (e.g. from inside to outside during the summer.)
- If the (DEW) protection feature is activated, leave the camcorder for at least two hours in a dry, warm room with the cassette compartment opened and the battery pack removed.

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getting to know your miniDV camcorder

WHAT IS INCLUDED WITH YOUR MINIDV CAMCORDER

Your new Digital Video camcorder comes with the following accessories. If any of these items is missing from your box, call Samsung's Customer Care Center at 1-800-SAMSUNG.

✪ **The exact appearance of each item may vary by model.**

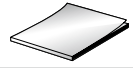
Battery Pack
(IA-BP80W)
AD43-00186A

AC Power Adapter
(AA-E9 type)
AD44-00116B

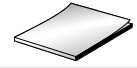
Audio/Video Cable
AD39-00001A

USB Cable
(SC-D383/D385 only)
AD39-00132D

Software CD
(SC-D383/D385 only)
AD46-00097A



User Manual
AD68-02562A



Quick Start Guide
AD68-02563A

Button-type Battery for Remote Control
(Type: CR2025)
(SC-D382/D385 only)
AD43-10130H

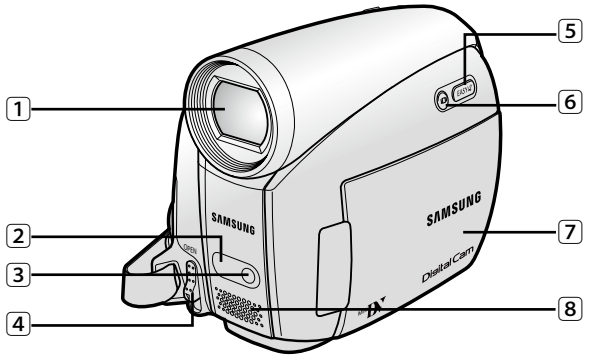
Remote Control
(SC-D382/D385 only)
AD59-00085B

Lens Cover
AD97-10686A

Lens Cover Strap
AD72-00049A

- The contents may vary depending on the sales region.
- Parts and accessories are available at your local Samsung dealer.
- A memory card is not included. See page 72 for memory cards compatible with your miniDV camcorder.

FRONT & LEFT VIEW

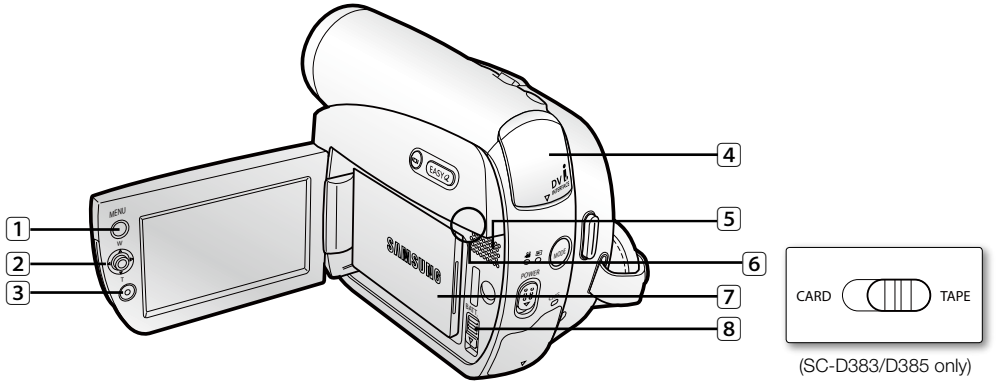


1 Lens	5 EASY Q button ➥page 36
2 Remote sensor (SC-D382/D385 only)	6 Display ( ) button
3 Light (SC-D382/D383/D385 only)	7 TFT LCD screen
4 OPEN switch	8 Internal microphone

CAUTION Be careful not to cover the internal microphone and lens during recording.

getting to know your miniDV camcorder

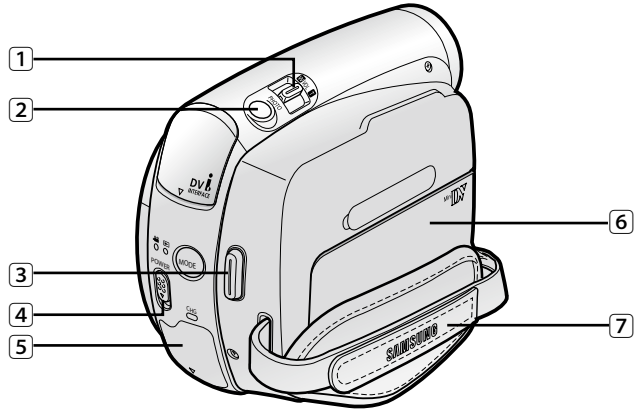
LEFT SIDE VIEW



(SC-D383/D385 only)

1. MENU button
2. Joystick (▲ / ▼/ ◀ / ▶/ Select), (W/T) ➥page 23
3. Recording start/stop button
4. Jack cover (AV/DV jack)
5. Built-in speaker
6. Select (CARD-TAPE) switch (SC-D383/D385 only)
7. Battery pack
8. Battery release (BATT.) switch

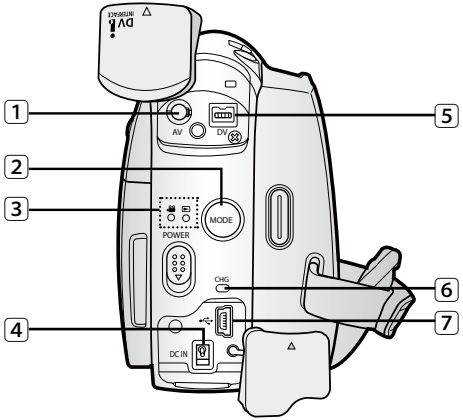
RIGHT & TOP VIEW

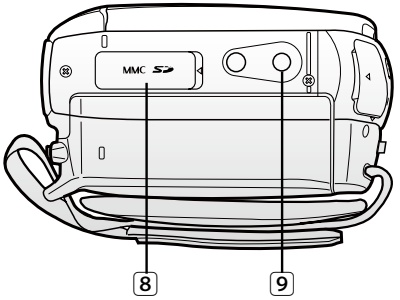


1 Zoom(W/T) / Volume (VOL) lever	5 Jack cover (DC IN, USB (SC-D383/D385 only) jack)
2 PHOTO button ➥pages 60,76	6 Cassette compartment cover
3 Recording start/stop button	7 Hand strap
4 POWER switch	

getting to know your miniDV camcorder

REAR & BOTTOM VIEW





1. AV jack
2. MODE button
3. Mode indicator (Camera ( ) / Player ( ) mode)
4. DC IN Jack
5. DV (IEEE1394) jack
6. Charging (CHG) indicator
7. USB jack (SC-D383/D385 only)
8. Memory card slot (SC-D383/D385 only)
9. Tripod receptacle

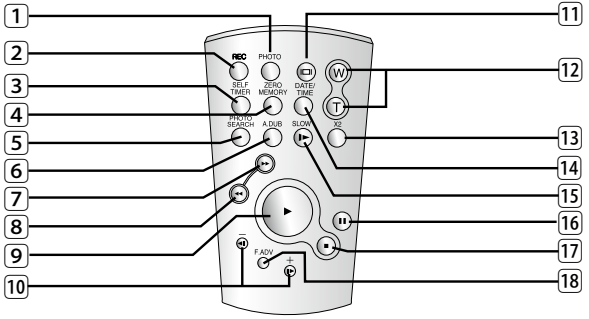
Jacks

SC-D383/D385	AV	DV	DC IN	USB
SC-D381/D382	AV	DV	DC IN	

Usable Memory Cards (2GB Max)

SC-D383/D385 only
MMC/SD

USING THE REMOTE CONTROL (SC-D382/D385 only)



1 PHOTO button ➥pages 60,76	10 ◀II (-) / II▶ (+) (Direction) button ➥page 64
2 REC button	11 Display (▭) button
3 SELF TIMER button ➥page 39	12 W/T (Zoom) button
4 ZERO MEMORY button ➥page 38	13 X2 button ➥page 64
5 PHOTO SEARCH button ➥page 61	14 DATE/TIME button
6 A.DUB button ➥page 65	15 I▶ (SLOW) button
7 ▶▶ (FF) button	16 II (PAUSE) button
8 ◀◀ (REW) button	17 ■ (STOP) button
9 ▶ (PLAY) button	18 F. ADV button ➥page 64

The buttons on the remote control function the same as those on the miniDV camcorder.

preparation

This section provides information on using this miniDV camcorder: such as how to use the provided accessories, how to charge the battery, how to set up the operation and screen indicators in each mode.

USING THE HAND STRAP & LENS COVER

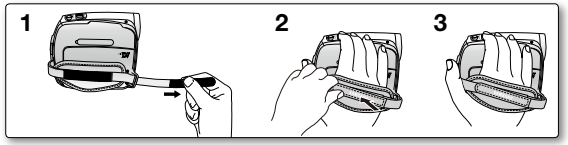
It is very important to ensure that the hand strap has been correctly adjusted before you begin your recording. The hand strap enables you to:

- Hold the camcorder in a stable, comfortable position.
- Put your hand in a position where you can easily operate the **Recording start/stop** button, **PHOTO** button, and the **Zoom** lever.

Hand Strap

Adjusting the Hand Strap

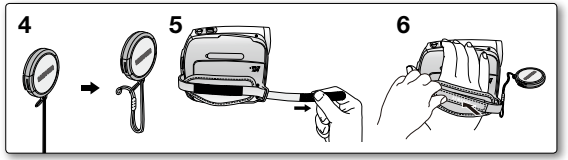
1. Insert the hand strap into the hand strap hook on the front side of the camcorder and pull its end through the hook.
2. Insert your hand into the hand strap and adjust its length for your convenience.
3. Close the hand strap.



Lens Cover

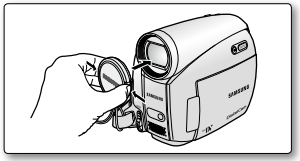
Attaching the Lens Cover

4. Hook up the lens cover with the lens cover strap as illustrated.
5. Hook up the lens cover strap to the hand strap, and adjust it following the steps as described for the hand strap.
6. Close the hand strap.



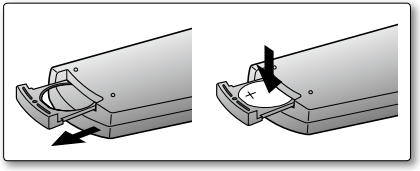
Installing the Lens Cover after Operation

Press buttons on both sides of the lens cover, then attach it to the camcorder lens.



INSTALLING THE BUTTON-TYPE BATTERY

Button-type battery installation for the remote control (SC-D382/D385 only)



1. Pull out the button-type battery holder toward the direction of the arrow.
2. Position the button-type battery in the button-type battery holder, with the positive (⊕) terminal face up.
3. Reinsert the button-type battery holder.

Precaution regarding the button-type battery

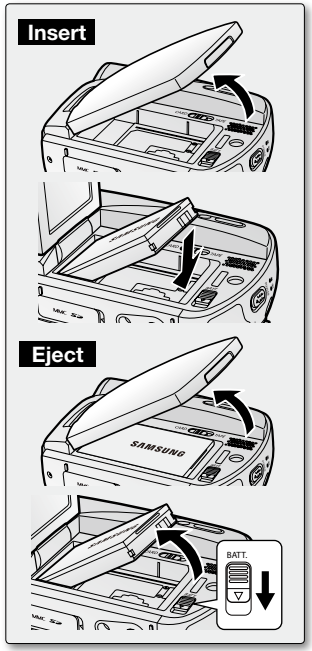
- There is a danger of explosion if button-type battery is incorrectly replaced. Replace only with the same or equivalent type.
- Do not pick up the battery using tweezers or other metal tools. This will cause a short circuit.
- Do not recharge, disassemble, heat or immerse the battery in water to avoid the risk of explosion.

WARNING

Keep the button-type Battery out of reach of children. Should a battery be swallowed, seek medical attention immediately.

USING THE BATTERY PACK

- Use the IA-BP80W battery pack only.
- The battery pack may be charged a little at the time of purchase.
- Be sure to charge the battery pack before you start using your miniDV camcorder.



Inserting / Ejecting the battery pack

1. Open the LCD screen as shown in the figure.
2. Insert the battery pack into the battery pack slot until it softly clicks.
   - Make sure that word mark (SAMSUNG) is facing out while the camcorder is placed as shown in the figure.
3. Slide the **BATT.** release switch and pull out the battery pack.
   - Gently slide the **BATT.** release switch in the direction as shown in the figure.

- Additional battery packs are available at your local Samsung dealer.
- If the miniDV camcorder will not be in use for a while, remove the battery pack from the miniDV camcorder.

Charging the Battery Pack

1. Slide the **POWER** switch downwards to turn off the power.
2. Insert the battery pack to the camcorder.
3. Open the jack cover and connect the AC power adaptor to the DC IN jack.
4. Connect the AC power adaptor to a wall socket.
5. Once charged, disconnect the AC power adaptor from the DC IN jack on your camcorder.
   - Even with the power switched off, the battery pack will still discharge if it is left inserted in the camcorder.

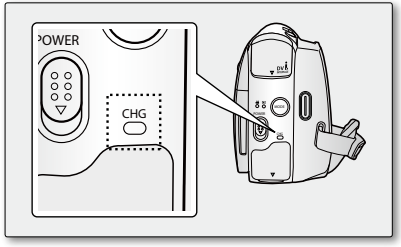
It is recommended that you purchase one or more additional battery packs to allow continuous use of your miniDV camcorder.

Use only Samsung-approved battery packs. Do not use batteries from other manufacturers.
Otherwise, there is a danger of overheating, fire or explosion.
Samsung is not responsible for problems occured due to using unapproved batteries.

Charging indicator

The color of the LED indicates the power or charging state.

- If the battery pack has been fully charged, the charge indicator is green.
- If you are charging the battery, the color of the charge indicator is orange.
- If an error occurs while the battery pack in charging, the charging indicator blinks orange.



<Charging indicator>

Charging, Recording Times with a fully charged battery pack (with no zoom operation, LCD open, etc.)

- Measured times shown in the table are based on model SC-D385.
  (Times for SC-D381/D382/D383/D385 are almost the same.)
- The time is only for reference. Figures shown in the table are measured under Samsung's test environment, and may differ from your actual use.

Time / Battery	Charging time	Recording time
IA-BP80W	Approx. 1hr 20min	Approx. 1hr 20min

- The recording time shortens dramatically in a cold environment. The continuous recording times in the operating instructions are measured using a fully charged battery pack at 25 °C (77 °F). As the environmental temperature and conditions vary, the remaining battery time may differ from the approximate continuous recording times given in the instructions.

The amount of continuous recording time available depends on:

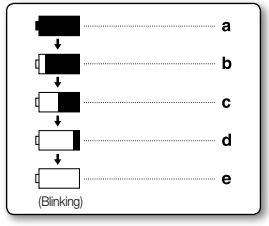
- The type and capacity of the battery pack you are using.
- Ambient temperature.
- How often the zoom function is used.
- Type of use (camcorder/camera/with LCD screen etc.)
- It is recommended that you have several batteries available.

- To check the remaining battery charge, press and hold the **Display** ( ) button. ➥page 21
- The charging time will vary depending on the remaining battery level.

Battery Level Display

The battery level display indicates the amount of power remaining in the battery pack.

a. Fully charged
b. 20~40% used
c. 40~80% used
d. 80~95% used
e. Completely used (Blinking)
(The Camcorder will turn off soon, change the battery as soon as possible.)



Battery Pack Management

- The battery pack should be recharged in an environment between 0 °C (32 °F) and 40°C (104 °F).
- The life and capacity of the battery pack will be reduced if it is used in temperatures below 0 °C (32 °F) or left in temperatures above 40 °C (104 °F) for a long period of time, even when it is fully recharged.
- Do not put the battery pack near any heat source (i.e. fire or a heater).
- Do not disassemble, apply pressure to, or heat the battery pack.
- Do not allow the + and – terminals of the battery pack to be short-circuited. It may cause leakage, heat generation, induce overheating or fire.

Notes regarding the Battery Pack

- Please refer to the table on page 15 for approximate continuous recording time.
- The recording time is affected by temperature and environmental conditions.
- The recording time shortens dramatically in a cold environment, as the environmental temperature and conditions vary.
- The continuous recording times in the operating instructions are measured using a fully charged battery pack at 25 °C (77 °F). The remaining battery time may differ from the approximate continuous recording times given in the instructions.
- **When purchasing a new battery pack, we recommend buying the same battery pack that is provided with this camcorder. The battery pack is available at SAMSUNG retailers.**
- When the battery reaches the end of its life, please contact your local dealer. Batteries should be handled as chemical waste.
- Make sure that the battery pack is fully charged before starting to record.
- A brand new battery pack is not charged. Before using the battery pack, you need to charge it completely.
- The battery pack may be prone to leakage when fully discharged. Fully discharging a battery pack damages the internal cells.
- To preserve battery power, keep your camcorder turned off when you are not operating it.
- If your camcorder is in **Camera** mode, and it is left in **STBY** mode without being operated for more than 5 minutes with a tape inserted, it will automatically turn itself off to protect against unnecessary battery discharge.
- Do not drop the Battery Pack. Dropping the battery pack may damage it.

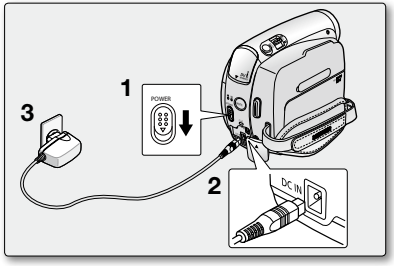
CONNECTING A POWER SOURCE

- There are two types of power source that can be connected to your camcorder.
  - The AC Power Adapter: used for indoor recording.
  - The Battery Pack: used for outdoor recording.

Using a Household Power Source

Connect to a household power source to use the camcorder without having to worry about the battery power. You can keep the battery pack attached; the battery power will not be consumed.

1. Slide the **POWER** switch downwards to turn off the power.
2. Open the jack cover and connect the AC power adaptor to the DC IN jack.
3. Connect the AC power adaptor to a wall socket.
   - The plug and wall socket type may differ according to your resident country.
4. Slide the **POWER** switch downwards to turn on the power and press the **MODE** button to set **Camera** ( ) or **Player** ( ).

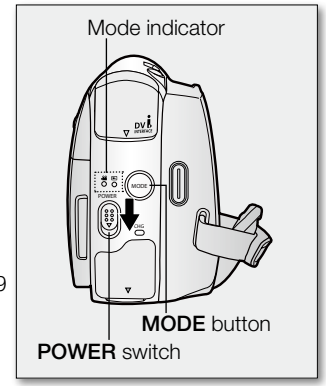


BASIC MINIDV CAMCORDER OPERATION

Turning the miniDV camcorder on and off

You can turn the camcorder on or off by sliding the **POWER** switch downward.

- Slide the **POWER** switch repeatedly to toggle the power on or off.



Setting the operating modes

- **Set the operation mode by adjusting the MODE button and Select switch (SC-D383/D385 only) before operating any functions.**

1. Press the **MODE** button to set **Camera**( ) or **Player**( ).
   Each press of the **MODE** button toggles between the **Camera** ( ) mode and **Player** ( ) mode.
2. Set the **Select** switch to **CARD** or **TAPE**. (SC-D383/D385 only)
   - **Camera** mode ( ): To record movie or photo images on a tape. ➥page 19
   - **Player** mode ( ): To play movie or photo images on a tape. ➥page 19
   - **M.Cam** mode ( ): To record movie or photo images on a memory card. ➥pages 20, 76 and 82
   - **M.Player** mode ( ): To play movie or photo images on a memory card. ➥pages 20, 77 and 84

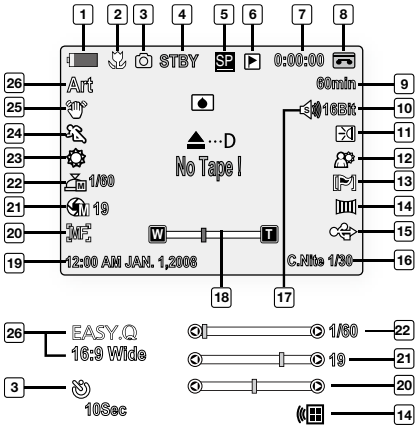
- The operating modes are determined by the position of the **MODE** button and **Select** switch (SC-D383/D385 only).

Mode Name	Camera Mode	Player Mode	M.Cam Mode	M.Player Mode
MODE button	MODE	MODE	MODE	MODE
Select switch (SC-D383/D385 only)	CARD TAPE	CARD TAPE	CARD TAPE	CARD TAPE

- M.Cam Mode : Memory Camera Mode
  M.Player Mode : Memory Player Mode
- The M.Cam Mode and the M.Player Mode are only available on models **SC-D383/D385**.

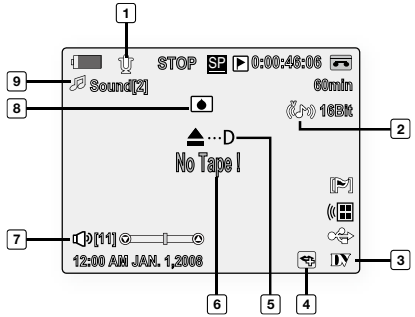
SCREEN INDICATORS IN CAMERA / PLAYER MODES

OSD in Camera Mode



1. Battery Level ➥page 16
2. Tele Macro * ➥page 54
3. Tape photo recording ➥page 60 / Self timer * ➥page 39 (SC-D382/D385 only)
4. Operating Mode
5. Record Speed Mode ➥page 44
6. Zero Memory ➥page 38 (SC-D382/D385 only)
7. Time counter (movie recording time)
8. Tape Indicator
9. Remaining Tape (measured in minutes)
10. Audio Mode ➥page 44
11. Light * ➥page 59 (SC-D382/D383/D385 only)
12. BLC (Back Light Compensation)* ➥page 56
13. WindCut Plus * ➥page 45
14. Fade ➥page 41/ Remote ➥page 25 (SC-D382/D385 only)
15. USB * ➥page 96 (SC-D383/D385 only)
16. C.Nite * ➥page 58
17. Real Stereo ➥page 46
18. Zoom Position * ➥page 37
19. Date/Time ➥page 32
20. Manual Focus * ➥page 42
21. Manual Exposure * ➥page 43
22. Shutter Speed * ➥page 43
23. White Balance * ➥page 49
24. Program AE * ➥page 47
25. DIS * ➥page 55
26. Visual Effects Mode * ➥page 51
    EASY.Q * ➥page 36
    16:9 Wide ➥page 53

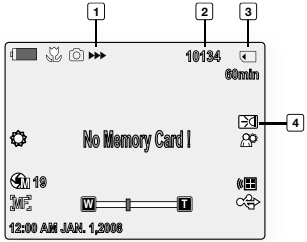
OSD in Player Mode



1. Audio Dubbing ➥page 65 (SC-D382/D385 only)
2. Audio Effect ➥page 67
3. DV IN (DV date transfer mode) ➥page 91
4. VOICE+ Indicator ➥page 71
5. Warning Indicator ➥page 101
6. Message Line ➥page 101
7. Volume Control * ➥page 62
8. DEW ➥page 102
9. Dubbed Audio Playback ➥page 66

SCREEN INDICATORS IN M.CAM / M.PLAYER MODES (SC-D383/D385 ONLY)

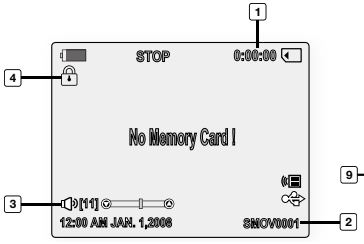
OSD in M.Cam Mode



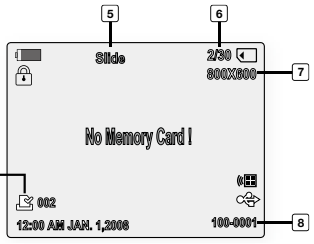
1	Image Recording and Loading Indicator
2	Image Counter (Total number of recordable photo images)
3	CARD (Memory Card) Indicator
4	Light ➥page 59 (SC-D382/D383/D385 only)

- OSD indicators shown here are based on model SC-D385.
- The screen to the left is an example; it is different from the actual display.
- The OSD indicators are based on memory capacity of 2GB (SC-D383/D385 only).
- For enhanced performance, the display indications and the order are subject to change without prior notice.
- Functions marked with * will not be retained when the miniDV camcorder is powered on after turning it off.

OSD in M.Player Mode



(Movie images)



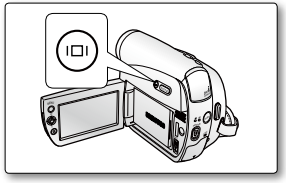
(Photo images)

1	Time counter (movie recording time)
2	File number of the moving image
3	Volume Control * ➥page 84
4	Erase Protection Indicator ➥page 78
5	Silde ➥page 77
6	Image Counter (Current photo image/ Total number of recordable photo images)
7	Photo image size ➥page 73
8	Folder Number - File Number ➥page 75
9	Print Mark ➥page 87

USING THE DISPLAY ( ) BUTTON

You can switch between the on-screen information display modes: Press the **Display** ( ) button.

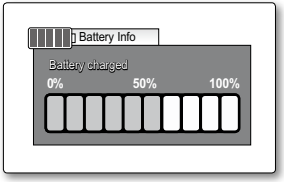
Switching the information display mode



You can switch between the on-screen information display modes:
Press the **Display** ( ) button.
The full and minimum display modes will alternate.

- Full display mode: All information will appear.
- Minimum display mode: Only operating status indicators will appear.

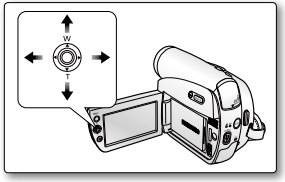
Checking the remaining battery



- Press and hold the **Display** ( ) button while charging with the power off. After a while, the charging status will be displayed on the LCD screen for 7 seconds.
- The battery charge status is given as reference and is an estimation. It may differ depending on the battery capacity and temperature.

USING THE JOYSTICK

Used for playback, pausing, fast forwarding, and rewinding. Also used as directional buttons (up, down, left, right) and to make a selection when selecting movie, photo images or menus.



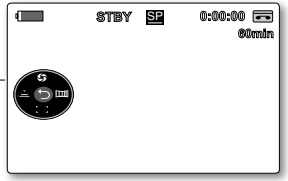
1. Move the **Joystick (▲ / ▼)** up or down.
2. Move the **Joystick (◀ / ▶)** left or right.
   - Confirm your selection by pressing **Joystick.**

For more information on the OSD menus displayed using the **Joystick** (▲/ ▼/◀ / ▶), see page 23.

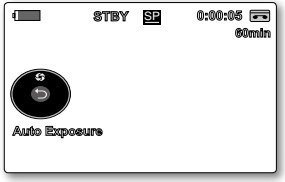
HANDLING QUICK MENUS WITH THE JOYSTICK

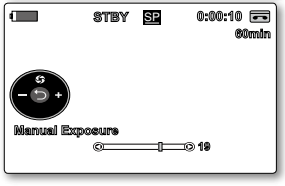
Using the **Joystick**, you can easily access frequently used menus without using the **MENU** button.

✪ Follow the instructions below to use each of the menu items listed after this page. For example: setting the Exposure in **Camera** ( ) mode



1. Press the **Joystick**.
   - Quick menu is displayed.
2. Press the **Joystick (▲/ ▼/◀ / ▶)** to control the setting.
   - Moving the Joystick up toggles between **"Auto Exposure"** and **"Manual Exposure"**.
3. Press the **Joystick** to confirm your selection.
   - Press the **Joystick** button to exit the quick menu according to the selected mode.





- There are some functions you cannot activate simultaneously when using **Joystick**. You cannot select the menu items grayed out on the screen.
- Accessible items in menu and quick menu vary depending on the operation mode.

HANDLING QUICK MENUS WITH THE JOYSTICK

Quick Menu In Camera /Player modes

Joystick	Camera ( ) Mode		Player ( ) Mode				
Input \ Status		-		STOP	PLAY	PAUSE	FF	REW
▲		Exposure		-	-	-	-	-
▼		Focus		-	STOP	STOP	STOP	STOP
◀		Shutter		REW	REW	REW	REW	REW
▶		Fade		FF	FF	FF	FF	FF
OK		Return / Selection / Exit the menu		PLAY	PAUSE	PLAY	PLAY	PLAY

Quick Menu In M.Cam / M.Player modes (SC-D383/D385 only)

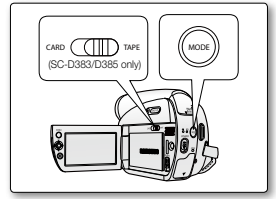
Joystick	M.Cam ( ) Mode		M.Player ( ) Mode (Movie images)						M. Player ( ) Mode (Photo images)	
Input \ Status		-		STOP	PLAY	PAUSE	FF	REW		-
▲		Exposure		-	-	-	-	-		Delete
▼		Focus		Thumbnail	STOP	STOP	STOP	STOP		Thumbnail
◀		-		Previous Skip	REW	REW	REW	REW		Previous Skip
▶		-		Next Skip	FF	FF	FF	FF		Next Skip
OK		Return/ Selection/Exit the menu		PLAY	PAUSE	PLAY	PLAY	PLAY		Slide Show

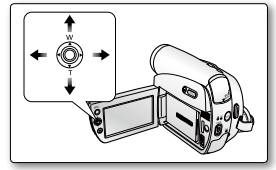
initial setting : system menu setting

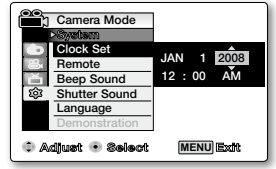
SETTING THE CLOCK (CLOCK SET)

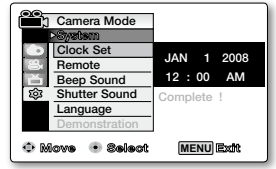
- Clock setup works in **Camera** / **Player** / **M.Cam** / **M.Player** modes. ➥page 18
- Set the date and time when using this camcorder for the first time.

1. Set the **Select** switch to **CARD** or **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ) or **Player** ( ).
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Joystick (▲ / ▼)** up or down to select **"System"**, then press the **Joystick** or move the **Joystick (▶)**to the right.
5. Move the **Joystick (▲ / ▼)** up or down to select **"Clock Set"**, then press the **Joystick**.
   - The year will be highlighted first.
6. Move the **Joystick (▲ / ▼)** up or down to set the current year, then press the **Joystick**.
   - The month will be highlighted.
7. You can set the month, day, hour and minute following the same procedure after setting the year.
8. Press the **Joystick** after setting the minutes.
   - The message **"Complete !"** is displayed.
9. To exit, press the **MENU** button.









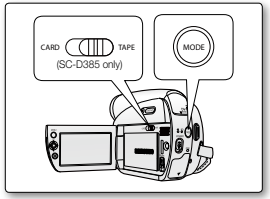
- You can set the year up to 2037.
- **Turning the date and time display on/off**
  To switch the date and time display on or off, access the menu and change the date/time display mode. ➥page 32

Display illustrations in this manual

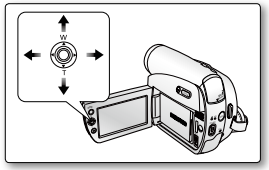
- OSD illustrations of SC-D385 are used in this manual.
- Some of the OSD items shown in this manual may differ slightly from the actual items on your camcorder.

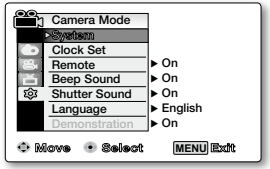
SETTING THE WIRELESS REMOTE CONTROL ACCEPTANCE (REMOTE) (SC-D382/D385 only)

- The remote function works in **Camera** / **Player** / **M.Cam** / **M.Player** modes. ➥page 18
- The remote function allows you to enable or disable the remote control for use with the camcorder.

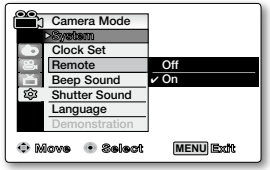


1. Set the **Select** switch to **CARD** or **TAPE**. (SC-D385 only)
2. Press the **MODE** button to set **Camera** ( ) or **Player** ( ).
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Joystick (▲ / ▼)** up or down to select **"System"**, then press the **Joystick** or move the **Joystick (▶)**to the right.
5. Move the **Joystick (▲ / ▼)** up or down to select **"Remote"**, then press the **Joystick**.
6. Move the **Joystick (▲ / ▼)** up or down to select **"On"** or **"Off"**, then press the **Joystick**.
7. To exit, press the **MENU** button.





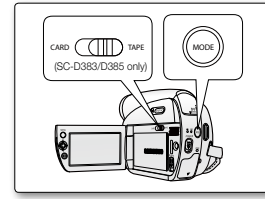
If you set the **"Remote"** to **"Off"** in the menu and try to use it, the remote control indicator ( ) will blink for 3 seconds on the LCD screen and then disappear.



initial setting : system menu setting

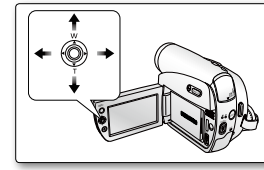
SETTING THE BEEP SOUND (BEEP SOUND)

- The beep sound function works in **Camera** / **Player** / **M.Cam** / **M.Player** modes. ➥page 18
- You can turn the beep sound on or off, when on, each press of a button sounds a beep.



1. Set the **Select** switch to **CARD** or **TAPE**. (SC-D383/D385 only)

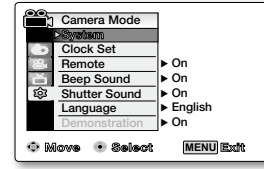
2. Press the **MODE** button to set **Camera** ( ) or **Player** ( ).



3. Press the **MENU** button.
- The menu list will appear.

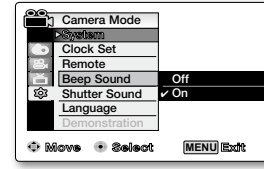
4. Move the **Joystick (▲ / ▼)** up or down to select **"System"**, then press the **Joystick** or move the **Joystick (▶)**to the right.

5. Move the **Joystick (▲ / ▼)** up or down to select **"Beep Sound"**, then press the **Joystick**.



6. Move the **Joystick (▲ / ▼)** up or down to select **"On"** or **"Off"**, then press the **Joystick**.

7. To exit, press the **MENU** button.



When beep sound is set to off, the power on/off sound is off.

SETTING THE SHUTTER SOUND (SHUTTER SOUND)

- The shutter sound function works in **Camera** / **Player** / **M.Cam** modes. ➥page 18
- You can turn the shutter sound on or off, when on, with each press of the **PHOTO** button, the shutter will sound.

1. If you press the **MODE** button to set it to **Camera** ( ), set the **Select** switch to either **CARD** or **TAPE**.
If you press the **MODE** button to set it to **Player** ( ), set the **Select** switch to **TAPE**.

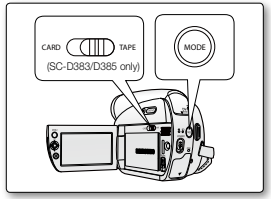
2. Press the **MENU** button.
- The menu list will appear.

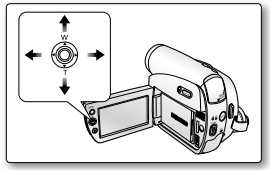
3. Move the **Joystick (▲ / ▼)** up or down to select **"System"**, then press the **Joystick** or move the **Joystick (▶)**to the right.

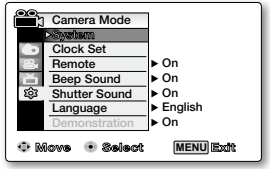
4. Move the **Joystick (▲ / ▼)** up or down to select **"Shutter Sound"**, then press the **Joystick**.

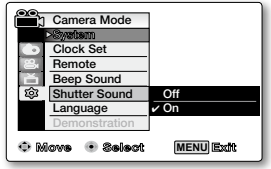
5. Move the **Joystick (▲ / ▼)** up or down to select **"On"** or **"Off"**, then press the **Joystick**.

6. To exit, press the **MENU** button.





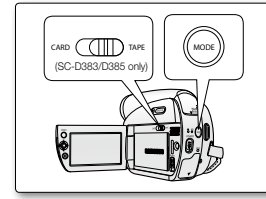




initial setting : system menu setting

SELECTING THE OSD LANGUAGE (LANGUAGE)

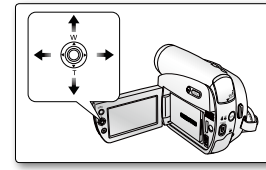
- The Language function works in **Camera** / **Player** / **M.Cam** / **M.Player** modes. ➥page 18
- You can select the desired language to display the menu screen and the messages.



1. Set the **Select** switch to **CARD** or **TAPE**. (SC-D383/D385 only)

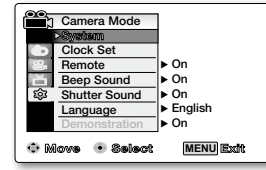
2. Press the **MODE** button to set **Camera** ( ) or **Player** ( ).

3. Press the **MENU** button.
- The menu list will appear.

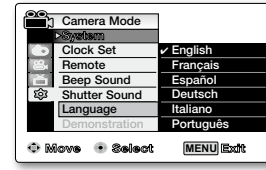


4. Move the **Joystick (▲ / ▼)** up or down to select **"System"**, then press the **Joystick** or move the **Joystick (▶)**to the right.

5. Move the **Joystick (▲ / ▼)** up or down to select **"Language"**, then press the **Joystick**.
- The available language options are listed.
- English / Français / Español / Deutsch / Italiano / Português / Polski / Nederlands / Magyar / Svenska / 中文 / ไทย / عربيت / Iran / Русский / Українська /한국어 / Suomi / Türkçe / Norwegian / Danish / Czech / Slovakia



6. Move the **Joystick (▲ / ▼)** up or down to select the desired OSD language, then press the **Joystick**.
- The OSD language is refreshed in the selected language.

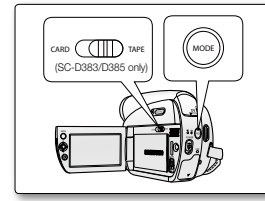


7. To exit, press the **MENU** button.

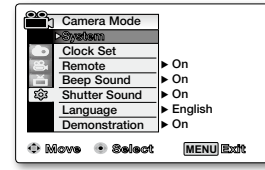
Language options may be changed without prior notice.

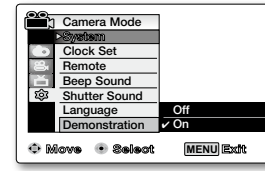
VIEWING THE DEMONSTRATION (DEMONSTRATION)

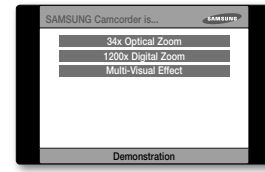
- Demonstration automatically shows you the major functions that are included with your camcorder so that you may use them more easily.
- The demonstration function may only be used in the **Camera** mode without a tape inserted in the camcorder. ➥page 18
- Before you begin: Make sure that there is no tape inserted in the camcorder. ➥page 34
- The demonstration operates repeatedly until the demonstration mode is switched off.



1. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ).
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Joystick (▲ / ▼)** up or down to select **"System"**, then press the **Joystick** or move the **Joystick (▶)**to the right.
5. Move the **Joystick (▲ / ▼)** up or down to select **"Demonstration"**, then press the **Joystick**.
6. Move the **Joystick (▲ / ▼)** up or down to select **"On"**, then press the **Joystick**.
7. Press the **MENU** button.
   - The demonstration will begin.
8. To quit the demonstration, press the **MENU** button.





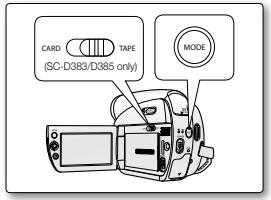


- The demonstration function is automatically activated when the camcorder is left idle for more than 10 minutes after switching to the **Camera** mode (if no tape is inserted in the camcorder).
- If you press other buttons **(MENU, Joystick, EASY.Q...)** during the demonstration mode, the demonstration stops temporarily and resumes 10 minutes later if you do not operate any other functions.
- The demonstration mode displays in 4:3 aspect ratio on the LCD screen.

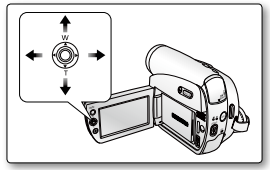
initial setting : display menu setting

SETTING THE GUIDELINE (GUIDELINE)

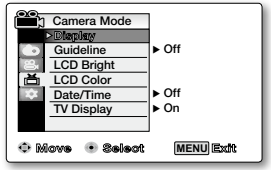
- Adjusting the LCD screen works in **Camera** / **M.Cam** modes. ➥page 18
- Guideline displays a certain pattern on the LCD screen so that you can easily set the image composition when recording movie or photo images.
- The miniDV camcorder provides 3 types of guidelines.



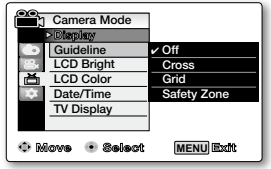
1. Set the **Select** switch to **CARD** or **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ).
3. Press the **MENU** button.
   - The menu list will appear.



4. Move the **Joystick (▲ / ▼)** up or down to select **"Display"**, then press the **Joystick** or move the **Joystick (▶)**to the right.
5. Move the **Joystick (▲ / ▼)** up or down to select **"Guideline"**, then press the **Joystick**.
6. Move the **Joystick (▲ / ▼)** up or down to select the guideline display type, then press the **Joystick**.



Settings	Contents	On-screen display
Off	Disables the function.	None
Cross	Enables you to center the subject for proper recording.	
Grid	Enables you to place the subject in the center square fo r proper positioning.	
Safety Zone	Enables you to place the subject within a safety zone which prevents it being cut when editing in 4:3 mode for left and right and 2.35:1 for top and bottom.	

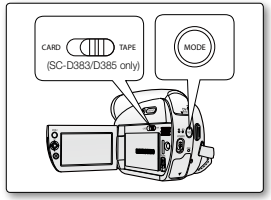


7. To exit, press the **MENU** button.

- Positioning the subject at the cross point of the guideline makes a balanced composition.
- Guidelines are not recorded on the images.

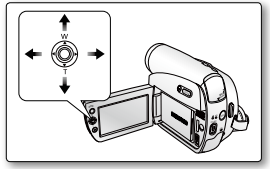
ADJUSTING THE LCD SCREEN (LCD BRIGHT/LCD COLOR)

- Adjusting the LCD screen works in **Camera** / **Player** / **M.Cam** / **M.Player** modes. ➥page 18
- Your camcorder is equipped with a 2.7 inch wide color Liquid Crystal Display (LCD) screen, which enables you to view what you are recording or playing back directly.
- Depending on the conditions under which you are using the camcorder (indoors or outdoors for example), you can adjust:
  - **"LCD Bright"**
  - **"LCD Color"**



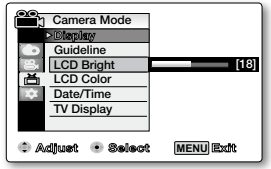
1. Set the **Select** switch to **CARD** or **TAPE**. (SC-D383/D385 only)

2. Press the **MODE** button to set **Camera** ( ) or **Player** ( ).



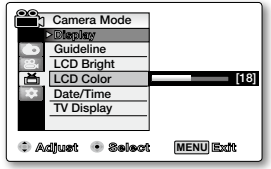
3. Press the **MENU** button.
- The menu list will appear.

4. Move the **Joystick (▲ / ▼)** up or down to select **"Display"**, then press the **Joystick** or move the **Joystick (▶)**to the right.



5. Move the **Joystick (▲ / ▼)** up or down to select **"LCD Bright"** or **"LCD Color"**, then press the **Joystick**.

6. Move the **Joystick (▲ / ▼)** up or down to adjust the value of the selected item, **"LCD Bright"** or **"LCD Color"**, then press the **Joystick**.
- You can set values for **"LCD Bright"** and **"LCD Color"** between **"0"** and **"35"**.



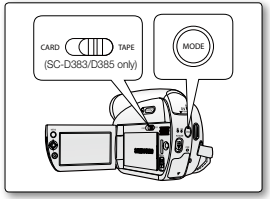
7. To exit, press the **MENU** button.
- Adjusting the LCD screen does not affect the brightness and color of the image to be recorded.

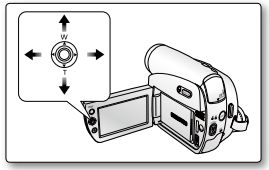
initial setting:display menu setting

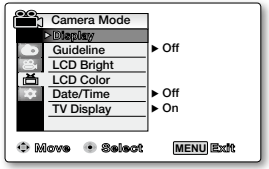
DISPLAYING THE DATE / TIME (DATE / TIME)

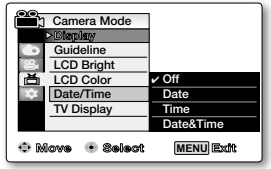
- The date/time function works in **Camera** / **Player** / **M.Cam** / **M.Player** modes. ➥page 18
- The date and time are automatically recorded on a special data area of the tape.

1. Set the **Select** switch to **CARD** or **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ) or **Player** ( ).
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Joystick (▲ / ▼)** up or down to select **"Display"**, then press the **Joystick** or move the **Joystick (▶)**to the right.
5. Move the **Joystick (▲ / ▼)** up or down to select **"Date/Time"**, then press the **Joystick**.
6. Move the **Joystick (▲ / ▼)** up or down to select the date/time display type, then press the **Joystick**.
   - Date/Time display types: **"Off"**, **"Date"**, **"Time"**, **"Date&Time"**.
7. To exit, press the **MENU** button.





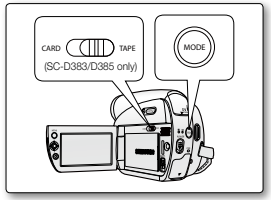




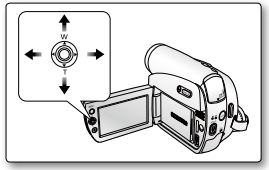
- **On charging the built-in rechargeable battery**
  Your camcorder has a built-in rechargeable battery to retain the date, time, and other settings even when the power is off. The built-in rechargeable battery is always charged while your camcorder is connected to the wall outlet via the AC power adaptor or while the battery pack is attached. The rechargeable battery will be fully discharged in about 3 months if you do not use your camcorder at all. Use your camcorder after charging the built-in rechargeable battery. If the built-in rechargeable battery is not charged, any data that you have input will not be backed up and the date/time appears on the screen as **"12:00 AM JAN. 1.2008"** (when **"Date/Time"** display is set to **"On"**).
- The date/time will read **"12:00 AM JAN. 1.2008"** in the following conditions:
  - When the built-in rechargeable battery becomes weak or dead.
  - If the movie or photo recording was made before setting the date/time in the miniDV camcorder.
- The DATE/TIME button exists on the remote control as well. (SC-D382/D385 only) Press it once to display the date **"JAN. 1.2008"**, press it twice to display the time and press it again to display both time and date on the screen.

SETTING THE TV DISPLAY (TV DISPLAY)

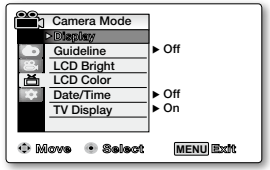
- The TV Display function works in **Camera** / **Player** / **M.Cam** / **M.Player** modes. ➥page 18
- You can select the output path of the OSD (On Screen Display).
  - **"Off"**: The OSD appears on the LCD screen only.
  - **"On"**: The OSD appears on the LCD screen and TV. (Connecting to a TV ➥pages 69~70)
  - Use the **Display( )** button to turn the OSD on/off on the LCD screen and TV. ➥page 21

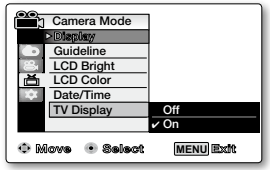


1. Set the **Select** switch to **CARD** or **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ) or **Player** ( ).
3. Press the **MENU** button.
   - The menu list will appear.



4. Move the **Joystick (▲ / ▼)** up or down to select **"Display"**, then press the **Joystick** or move the **Joystick (▶)** to the right.
5. Move the **Joystick (▲ / ▼)** up or down to select **"TV Display"**, then press the **Joystick**.
6. To activate TV Display function, move the **Joystick (▲ / ▼)** up or down to select **"On"** or **"Off"**, then press the **Joystick**.
7. To exit, press the **MENU** button.

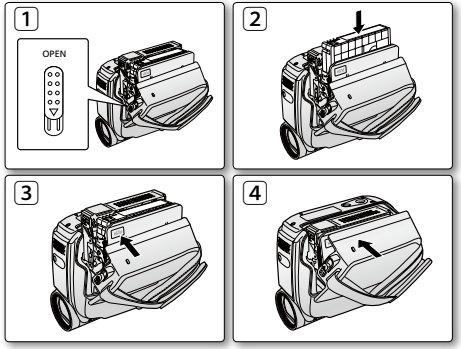




basic recording

INSERTING / EJECTING A CASSETTE

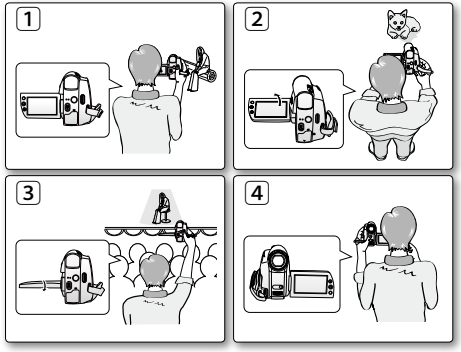
- When inserting a tape or closing the cassette compartment, do not apply excessive force, as it may cause a malfunction.
- Do not use any tape other than DV cassettes.



1. Connect a power source and slide the **OPEN switch**.
   - The cassette compartment cover opens automatically.
2. **Inserting a Cassette:** Insert a tape into the cassette compartment with the tape window facing outward and the protection tab toward the top.
   Ejecting a Cassette: Remove the cassette tape, which is automatically ejected by pulling the cassette out.
3. Press the area marked **PUSH** on the cassette compartment cover until it clicks into place.
   - The cassette is loaded automatically.
4. Close the cassette compartment cover.

VARIOUS RECORDING TECHNIQUES

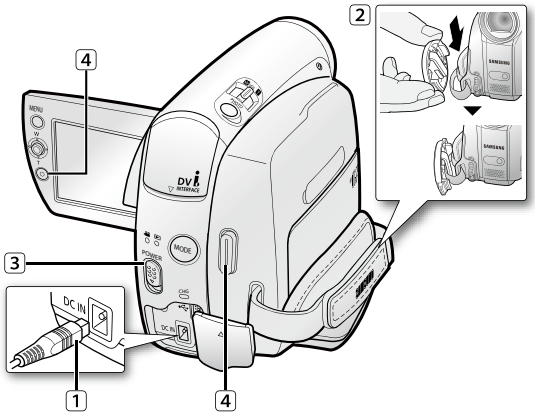
In some situations different recording techniques may be required.



1. General recording.
2. Downward recording.
   - Making a recording with a top view of the LCD screen.
3. Upward recording.
   - Making a recording viewing the LCD screen from below.
4. Self recording.
   - Making a recording viewing the LCD screen from the front.

Please rotate the LCD screen carefully as excessive rotation may cause damage to the inside of the hinge that connects the LCD screen to the camcorder.

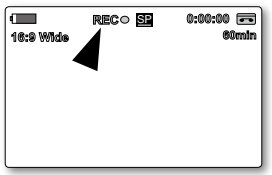
MAKING YOUR FIRST RECORDING



1. Connect a power source to the camcorder. ➥page 17
(A battery pack or a AC power adapter) ➥pages 14,17
- Insert a cassette. ➥page 34
- If you want to record on a memory card, insert the memory card. (SC-D383/D385 only) ➥page 72

2. Remove the lens cover.

3. Slide the **POWER** switch downwards to turn on the power.
- Open the LCD screen.
- Set the **Select** switch to **CARD** or **TAPE**. (SC-D383/D385 only)
- Press the **MODE** button to set **Camera** ( ). - Make sure that **STBY** is displayed.
- If the write protection tab of the cassette is open (set to save), **STOP** and **"Protection!"** will be displayed. Release the write protection tab to record.
- Make sure the image you want to record appears on the LCD screen.
- Make sure the battery level indicates that there is enough remaining power for your expected recording time.
- You can select a record mode of your choice. ➥page 44



4. To start recording, press the **Recording start/stop** button.
- **"REC●"** is displayed on the LCD screen.

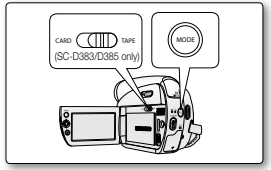
To stop recording, press the **Recording start/stop** button again.
- **"STBY"** is displayed on the LCD screen.

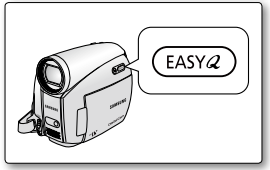
- Eject the battery pack when you finish the recordings to prevent unnecessary battery power consumption.
- The miniDV camcorder provides two **Recording start/stop** buttons. One is on the rear side of the camcorder and the other one is on the LCD panel. Select the **Recording start/stop** button according to the use.

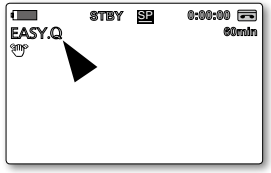
RECORDING WITH EASE FOR BEGINNERS (EASY Q MODE)

- The EASY Q function works only in **Camera** mode. ➥page 18
- With the EASY Q function, most of the miniDV camcorder settings are automatically adjusted, which frees you from making detailed adjustments.

1. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ).
3. Press the **EASY Q** button.
   - When you press the **EASY Q** button, most functions turn off and the following functions are set to **"Auto"** (DIS, Focus, White Balance, Exposure, Program AE, Shutter)
   - The EASY Q and DIS( ) indicators appear on the screen at the same time.
4. Press the **Recording start/stop** button to start recording.
   - Recording will begin using the basic automatic settings.







To cancel the EASY Q mode

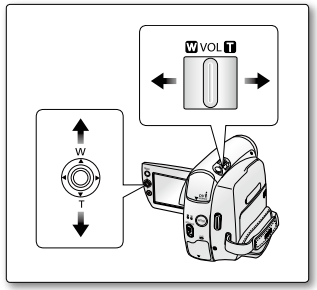
Press the **EASY Q** button again.

- The EASY Q and DIS( ) indicators disappear from the screen.
- Almost all the settings will return to the settings that were set prior to activating EASY Q mode.
- You cannot cancel the EASY.Q mode during recording.

- **Menu button unavailable during EASY.Q operation**
  The **MENU** button is not available because the items are automatically set. The **"Release the Easy.Q!"** messages may appear if unavailable operations are attempted.
  - **MENU** button
- Taking a photo image using the **PHOTO** button while EASY.Q is set releases the DIS function.

ZOOMING IN AND OUT

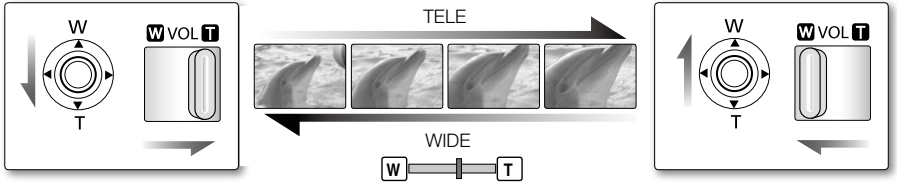
- The zoom function works in both **Camera** and **M.Cam** modes. ➥page 18
- Use the zoom function for close-up or wide-angle recording.
- This miniDV camcorder allows you to record using optical 34x power zoom and 1200x digital zoom.



To zoom in
Slide the **Zoom** lever towards **T** (telephoto).
(Or move the **Joystick** down (**T**) on the LCD panel.)

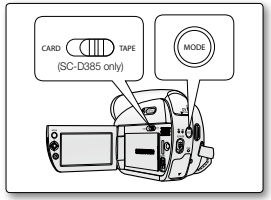
To zoom out
Slide the **Zoom** lever towards **W** (wide-angle).
(Or move up the **Joystick** (**W**) on the LCD panel.)

- The farther you slide the Zoom lever, the quicker the zoom action.
- Be sure to keep your finger on the Zoom lever. If you move your finger off the Zoom lever, the operation sound of the Zoom lever may be also recorded.
- Focusing may become unstable during zooming. In this case, set the zoom before recording and lock the focus by using the manual focus, then zoom in or out during recording. ➥page 42
- The minimum possible distance between camcorder and subject while maintaining sharp focus is about 1 cm (about 0.39 inch) for wide angle and 50 cm (about 19.68 inch) for telephoto.
- Optical zoom preserves the movie quality, but during digital zoom the quality of image may suffer.
- When you zoom into a subject close to the lens, the miniDV camcorder may automatically zoom out depending on the distance to the subject. In this case, set **"Macro"** to **"On."** ➥page 54

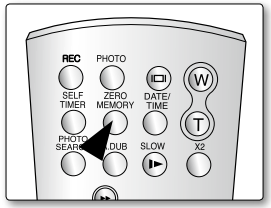


SEARCHING QUICKLY FOR A DESIRED SCENE (SETTING THE ZERO MEMORY) (SC-D382/D385 only)

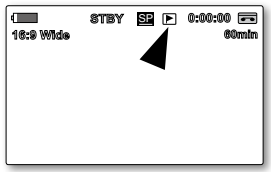
- The zero memory function works in both **Camera** and **Player** modes. ➥page 18
- You can mark a point on a tape that you want to return to following playback.



1. Set the **Select** switch to **TAPE**. (SC-D385 only)
2. Press the **MODE** button to set **Camera** ( ) or **Player** ( ).
3. Press the **ZERO MEMORY** button on the remote control before recording or during playback at the point where you wish to return.
   - The time code is changed to a tape counter that is set to zero memory with the zero memory ( ) **0:00:00**) indicator displayed.
   - If you want to cancel the zero memory function, press the **ZERO MEMORY** button again.



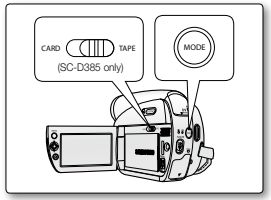
4. Finding the zero position.
   - When you have finished playback, fast forward or rewind the tape in stop mode. The tape stops automatically when it reaches the zero position.
   - When you have finished recording, press the **MODE** button to set **Player** ( ) and press the ◀◀ **(REW)** button. The tape stops automatically when it reaches the zero position.
5. The tape counter with the zero memory ( ) indicator disappears from the display and the tape counter is changed to the time code.



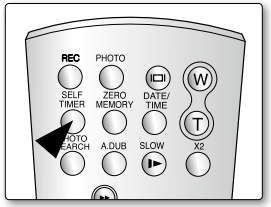
- In the following situations, zero memory mode may be canceled automatically:
  - At the end of the section marked with the zero memory function.
  - When the tape is ejected.
  - When you remove the battery pack or power supply.
- The zero memory may not function correctly where there is a break between recordings on the tape.
- The zero memory function is available only when using the remote control.

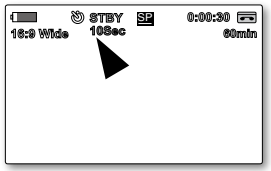
SELF RECORD USING THE REMOTE CONTROL (SETTING THE SELF TIMER) (SC-D382/D385 only)

- The SELF TIMER function works only in **Camera** mode. ➥page 18
- When you use the SELF TIMER function on the remote control, the recording begins automatically in 10 seconds.



1. Set the **Select** switch to **TAPE**. (SC-D385 only)
2. Press the **MODE** button to set **Camera** ( ).
3. Press the **SELF TIMER** button.
   - The ( ) indicator is displayed.
4. To record movie images, press the **Recording start/stop** button.
   - Self timer starts counting down from 10. At this moment, recording indicator blinks with a beep sound.
   - At the last second of the countdown, recording starts automatically.
   - If you want to cancel the self timer function before recording, press the **SELF TIMER** button again.



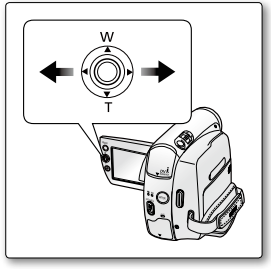


- Do not obstruct the remote control sensor by putting obstacles between the remote control and miniDV camcorder.
- The remote control maximum range is 4 to 5m (13 to17 ft).
- The effective remote control angle is up to 30 degrees left /right from the center line.
- Using a tripod (not supplied) is recommended during self record.

REVIEWING AND SEARCHING A RECORDING

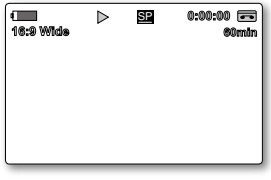
- The Rec Search function works only in **Camera** mode. ➥page 18
- Used to review previously recorded images or to find a point to record a new image in the STBY mode.

Record Search (Joystick)



1. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ).
3. To start recording, press the **Recording start/stop** button.
4. Set to STBY mode by pressing **Recording start/stop** button again.
5. **To perform the backward search:**
   - Move the **Joystick (◀)** to the left.
     - While you press and hold the **Joystick (◀)**, the selected images will be played in reverse order. Press and release the **Joystick (◀)** to play the images in reverse order for 3 seconds before resetting the play order to normal.

   To perform the normal search:
   - Move the **Joystick (▶)** to the right.
     - While you press and hold the **Joystick (▶)**, the selected images will be played in normal order. To resume recording when your record search is done, press the **Recording start/stop** button.



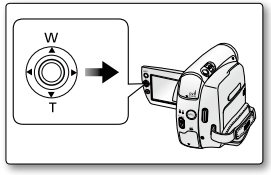
Mosaic shaped distortion may appear on the screen while in Record Search mode.

USING THE FADE ON AND OFF

- The Fade function works only in **Camera** mode. ➥page 18
- You can give your recording a professional look by using special effects such as fade in at the beginning of a sequence or fade out at the end of a sequence.

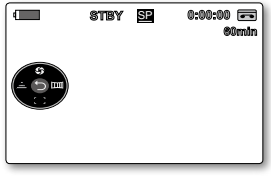
To Start Recording

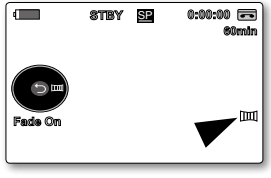
1. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ).
3. Before recording, press the **Joystick** and then move the **Joystick (▶)** to the right.
   - Move the **Joystick (▶)** to the right fade function to select **"Fade On"**.
4. Press the **Recording start/stop** button and at the same time release the Fade function.
   - Recording starts and the picture and sound gradually appear. (Fade In)

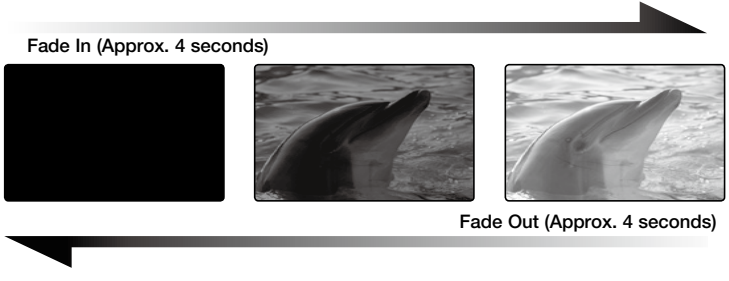


To Stop Recording

5. When you want to stop recording with fade out, press the **Joystick,** then move the **Joystick (▶)** to the right.
   - Move the **Joystick (▶)** to the right fade function to select **"Fade On"**.
6. Press the **Recording start/stop** button to stop recording.
   - The picture and sound gradually disappear. (Fade Out)





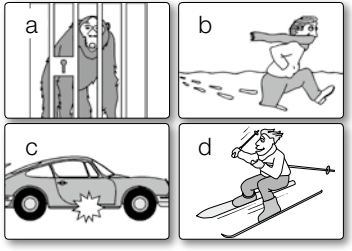


AUTO FOCUS / MANUAL FOCUS

- The Auto Focus/Manual Focus function works in both **Camera** and **M.Cam** modes. ➥page 18
- In most situations, it is better to use the automatic focus feature, as it enables you to concentrate on the creative side of your recording.
- Manual focusing may be necessary under certain conditions that make automatic focusing difficult or unreliable.
- Adjust the Auto Focus / Manual Focus functions only by using the Joystick.

Auto Focus

- If you are inexperienced in the use of camcorders, we recommend that you make use of auto focus.

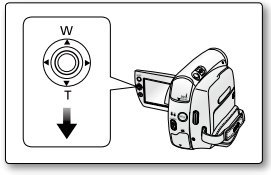


Manual Focus

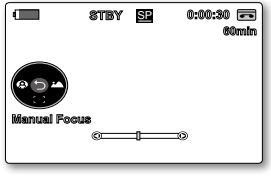
- In the following situations, you may obtain better results by adjusting the focus manually.

a. A picture containing several objects, some close to the camcorder, others further away.
b. A person enveloped in fog or surrounded by snow.
c. Very shiny or glossy surfaces like a car.
d. People or objects moving constantly or quickly like an athlete or a crowd.

Setting the Focus



1. Set the **Select** switch to **CARD** or **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ).
3. Press the **Joystick**.
   - Quick menu will appear.
4. Move the **Joystick** down **(▼)** to select the **"Manual Focus"** mode.
   - You can toggle between **"Auto Focus"** and **"Manual Focus"** by moving down the **Joystick** (▼).
   - Move the **Joystick (◀ / ▶)** left or right to select the desired manual focus value, then press the **Joystick**.
5. To exit, press the **Joystick**.
   - Manual focus indicator ( ) and the status bar will be displayed on the LCD screen.

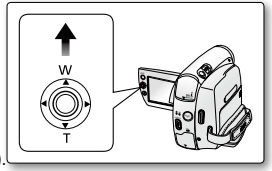


Manual focus is not available in the EASY.Q mode.

SETTING THE SHUTTER SPEED & EXPOSURE

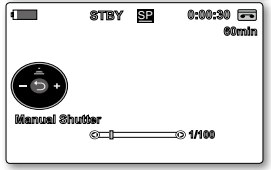
- The Shutter Speed function works only in **Camera** mode. ➥page 18
- The Exposure function works in both **Camera** and **M.Cam** modes. ➥page 18
- The Shutter Speed and Exposure functions can only be adjusted by using the **Joystick**.

1. Set the **Select** switch to **CARD** or **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ).
3. Press the **Joystick**.
   - Quick menu will appear.



Setting the Shutter Speed

4. Move the **Joystick (◀)** to the left to select **"Auto Shutter** ( )**"** mode.
   - In Auto mode, move up the **Joystick (▲)** to switch the mode to manual.
   - You can also toggle between Auto Shutter and Manual Shutter by moving up the **Joystick (▲)**.
5. Move the **Joystick (◀ / ▶)** left or right to select the desired shutter speed value, then press the **Joystick**.
   - Shutter speed can be set to **"1/60"**, **"1/100"**, **"1/250"**, **"1/500"**, **"1/1000"**, **"1/2000"**, **"1/4000"** or **"1/10000"** of a second.

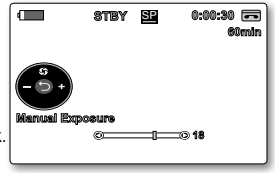


Recommended Shutter Speeds when Recording:

- Outdoor sports such as golf or tennis: **"1/2000"** or **"1/4000"**
- Moving cars or trains or other rapidly moving vehicles such as roller coasters: **"1/1000"**, **"1/500"** or **"1/250"**
- Indoor sports such as basketball: **"1/100"**

Setting the Exposure

4. Move up the **Joystick (▲)** to select **"Auto Exposure ( )"** mode.
   - In Auto mode, move up the **Joystick (▲)** to switch the mode to manual.
   - You can also toggle between Auto Exposure and Manual Exposure by moving up the **Joystick (▲)**.
5. Move the **Joystick (◀ / ▶)** left or right to select the desired exposure value, then press the **Joystick**.
   - Exposure value can be set between **"00"** to **"29".**
6. To exit, press the **Joystick**.
   - Selected settings are displayed.



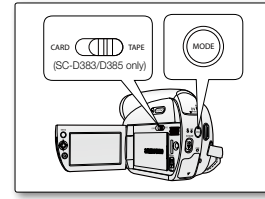
Manual exposure is recommended in situations listed below:

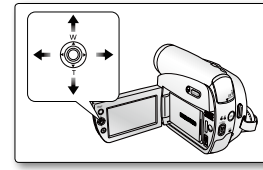
- When shooting using reverse lighting or when the background is too bright.
- When shooting on a reflective natural background such as at the beach or when skiing.
- When the background is overly dark or the subject is bright.

- If you manually change the shutter speed and the exposure value when program AE option is selected, manual changes are applied first.
- The image may not seem as smooth when a high shutter speed is set.
- The camcorder returns to the auto shutter and auto exposure settings when you change to the EASY.Q mode.
- When recording with a shutter speed of 1/1000 or higher, make sure the sun is not shining into the lens.

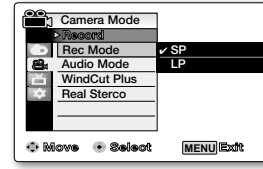
SELECTING THE RECORD MODE & AUDIO MODE (Rec Mode & Audio Mode)

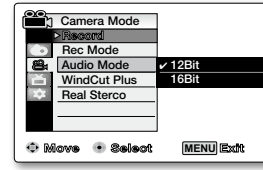
- The Record mode function works in both **Camera** and **Player** modes. ➥page 18
- This camcorder records and plays back in SP (standard play) mode and in LP (long play) mode.
  - **"SP"** : This mode allows 60 minutes of recording time with a DVM60 tape.
  - **"LP"** : This mode allows 90 minutes of recording time with a DVM60 tape.
- The Audio mode function works in both **Camera** and **Player** modes. ➥page 18
- This camcorder records sound in two ways. (**12Bit**,**16Bit**)
  - **"12Bit"** : You can record two 12Bit stereo sound tracks. The original stereo sound can be recorded onto the main (Sound1) track. Additional stereo sound can be dubbed onto the sub (Sound2) track.
  - **"16Bit"** : You can record one high quality stereo soundtrack using 16Bit recording mode. Audio dubbing is not possible when using this mode.





1. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ) or **Player** ( ).
3. Press the **MENU** button.
   - The menu list will appear
4. Move the **Joystick (▲ / ▼)** up or down to select **"Record"**, then press the **Joystick** or move the **Joystick (▶)** to the right.
5. Move the **Joystick (▲ / ▼)** up or down to select **"Rec Mode"**or **"Audio Mode"**, then press the **Joystick**.
6. Move the **Joystick (▲ / ▼)** up or down to select the desired record mode or audio mode, then press the **Joystick**.
   - Rec mode can be set to **"SP"** or **"LP"**.
   - Audio mode can be set to **"12Bit"** or **"16Bit"**.
7. To exit, press the **MENU** button.
   - The selected indicator is displayed.
   - When **"12Bit"** is selected, no indicator is displayed.



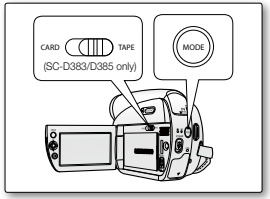


- We recommend that you use this camcorder to play back any tapes recorded on this camcorder. Playing back a tape recorded in other equipment may produce mosaic shaped distortion.
- When you record a tape in SP and LP modes, or LP mode only, the playback picture may be distorted or the time code may not be written properly if there is a gap between scenes.
- Record using SP mode for best picture and sound quality.

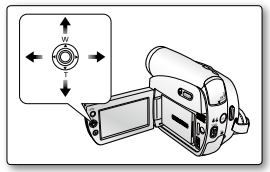
CAUTION To edit audio on your camcorder, you must set 12Bit for the Audio mode and SP for the Rec mode.

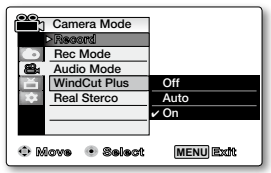
CUTTING WIND NOISE (WINDCUT PLUS)

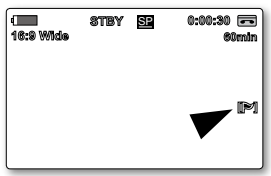
- The windcut plus function works in both **Camera** and **Player** (Audio dubbing) modes. ➥page 18
- Use the windcut plus when recording in windy places such as the beach or near buildings.
- The windcut plus function minimizes wind or other noises while recording.
  - When the windcut plus is on, some low pitched tones are eliminated along with the sound of the wind.



1. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ) or **Player** ( ).
3. Press the **MENU** button.
   - The menu list will appear
4. Move the **Joystick (▲ / ▼)** up or down to select **"Record"**, then press the **Joystick** or move the **Joystick (▶)** to the right.
5. Move the **Joystick (▲ / ▼)** up or down to select **"WindCut Plus"**, then press the **Joystick**.
6. To activate the windcut plus function, move the **Joystick (▲ / ▼)** up or down to select the windcut plus type, then press the **Joystick**.
   - **"Off"**: Disables the function
   - **"Auto"**: Minimizes the wind noise while preserving voices.
   - **"On"**: Removes the low pitched wind noise.
7. To exit, press the **MENU** button.
   - WindCut Plus (**"On"** ( ) or **"Auto"** ( )) indicator is displayed.



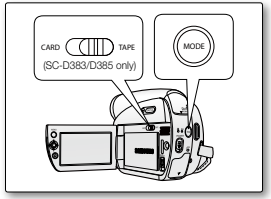




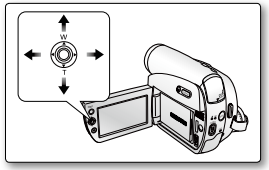
Make sure windcut plus is set to off when you want the microphone to be as sensitive as possible.

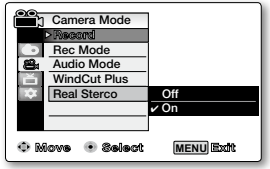
SELECTING THE REAL STEREO FUNCTION (REAL STEREO)

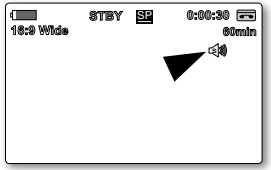
- The Real Stereo function works only in **Camera** mode. ➥page 18
- Real stereo enhances the left and right input signals when using the internal microphone.



1. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ).
3. Press the **MENU** button.
   - The menu list will appear
4. Move the **Joystick (▲ / ▼)** up or down to select **"Record"**, then press the **Joystick** or move the **Joystick (▶)** to the right.
5. Move the **Joystick (▲ / ▼)** up or down to select **"Real Stereo"**, then press the **Joystick**.
6. To activate the Real Stereo function, move the **Joystick (▲ / ▼)** up or down to select **"On"**, then press the **Joystick**.
   - If you do not want to use the Real Stereo function, set the **"Real Stereo"** menu to **"Off"**.
7. To exit, press the **MENU** button.
   - Real Stereo ( ) indicator is displayed.

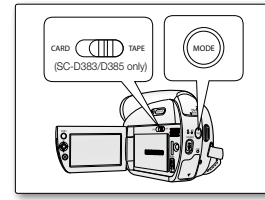




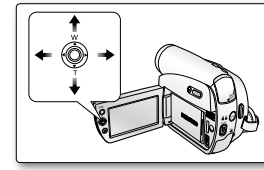


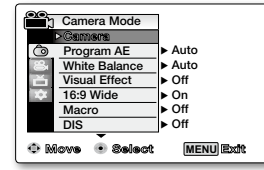
SETTING THE PROGRAM AE (PROGRAM AE)

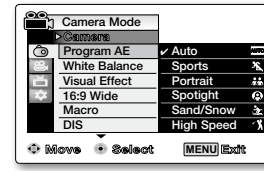
- The Program AE function works only in **Camera** mode. ➥page 18
- The Program AE mode allows you to adjust shutter speeds and apertures to suit different recording conditions.
- They give you creative control over the depth of field.



1. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ).
3. Press the **MENU** button.
   - The menu list will appear
4. Move the **Joystick (▲ / ▼)** up or down to select **"Camera"**, then press the **Joystick** or move the **Joystick (▶)** to the right.
5. Move the **Joystick (▲ / ▼)** up or down to select **"Program AE"**, then press the **Joystick**.
   - The available options are listed.
6. Move the **Joystick (▲ / ▼)** up or down to select the desired program AE option, then press the **Joystick**.
7. To exit, press the **MENU** button.
   - The indicator of the selected mode is displayed.
   - When the **"Auto"** mode is selected, no indicator is displayed.







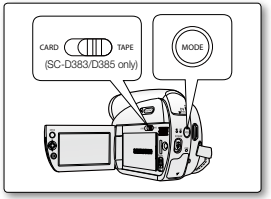
SETTING THE PROGRAM AE (PROGRAM AE)

Settings	Contents	On-screen display
Auto	- Auto balance between the subject and the background. - To be used in normal conditions. - The shutter speed is automatically adjusted from 1/60 to 1/250 per second, depending on the scene.	
Sports	- Reduces blurring when recording rapidly moving subjects such as in golf or tennis games. If the Sports mode is used under a fluorescent light, the image may flicker. In this case, use the Auto mode for recording.	
Portrait	- Creates a shallow depth of field so that the person or subject appears against a softened background. - The portrait mode is most effective when used outdoors. - The shutter speed is automatically adjusted from 1/60 to 1/1000 per second.	
Spotlight	- Prevents overexposure of subject's face, etc. when strong light strikes the subject, as in a wedding or on stage.	
Sand/ Snow	- Prevents underexposure of subject's face, etc. in a place where reflection of light is intense, such as at the beach in midsummer or on a ski slope.	
High Speed	- For recording fast-moving subjects such as players in golf or tennis games.	

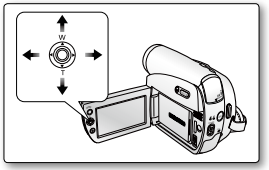
- The Program AE function will not operate in EASY.Q mode.
- The Program AE cannot be set when the Shutter Speed or the Exposure is set to manual.

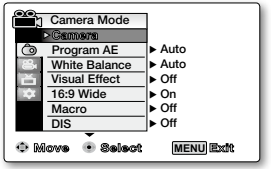
SETTING THE WHITE BALANCE (WHITE BALANCE)

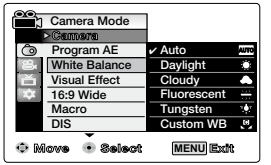
- The White Balance function works in both **Camera** and **M.Cam** modes. ➥page 18
- The White Balance is a recording function that preserves the unique image color of the object in any recording condition.
- You may select the appropriate White Balance mode to obtain good quality image color.



1. Set the **Select** switch to **CARD** or **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ).
3. Press the **MENU** button.
   - The menu list will appear
4. Move the **Joystick (▲ / ▼)** up or down to select **"Camera"**, then press the **Joystick** or move the **Joystick (▶)** to the right.
5. Move the **Joystick (▲ / ▼)** up or down to select **"White Balance"**, then press the **Joystick**.
   - The available options are listed.
6. Move the **Joystick (▲ / ▼)** up or down to select the desired white balance mode, then press the **Joystick**.
7. To exit, press the **MENU** button.
   - The indicator of the selected mode is displayed.
   - When the **"Auto"** mode is selected, no indicator is displayed.







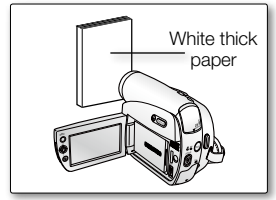
Settings	Contents	On-screen display
Auto	This option is generally used to control the white balance automatically.	AUTO
Daylight	This controls the white balance according to the outdoor ambience, especially for close up and when the subject is of one dominant color.	
Cloudy	This option should be used when making a recording in cloudy weather.	
Fluorescent	This option should be used when making a recording under white fluorescent lights.	
Tungsten	This option is for when there is less than 3200K of tungsten light being used.	
Custom WB	You can manually adjust white balance to match the light source or situation	

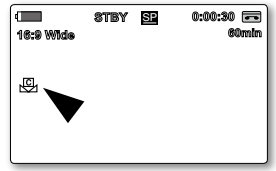
Setting the white balance manually :

1. Select **"Custom WB"**.
- The indicator ( ) and the message **"Set white balance"** are displayed.

2. Frame a white object such as a piece of paper so that it fills the screen. Use an object that is not transparent.
- If the object that fills the screen is not focused, correct the focus using **"Manual Focus"** ➥page 42

3. Press the **Joystick**.
- The white balance setting will be applied and indicator ( ) is displayed.

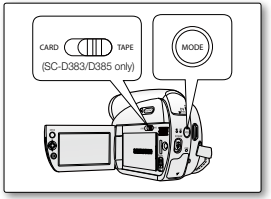




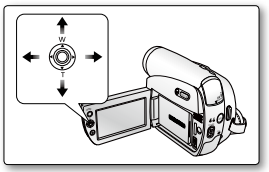
- The White Balance function will not operate in EASY.Q mode.
- It is recommended that you set **"Digital Zoom"** to **"Off"** before setting white balance. ➥page 57.
- Reset the white balance if lighting conditions change.
- During normal outdoor recording, setting to Auto may provide better results.
- Pressing the **MENU** button while setting the Custom WB will cancel the Custom WB setting and sets the White Balance to "**Auto**".

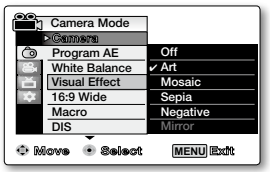
APPLYING VISUAL EFFECTS (VISUAL EFFECT)

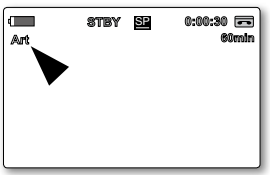
- The visual effect function works only in **Camera** mode. ➥page 18
- The visual effects enable you to give a creative look to your recording.
- Select the appropriate visual effect for the type of picture that you wish to record and the effect you wish to create. There are 10 visual effect modes.



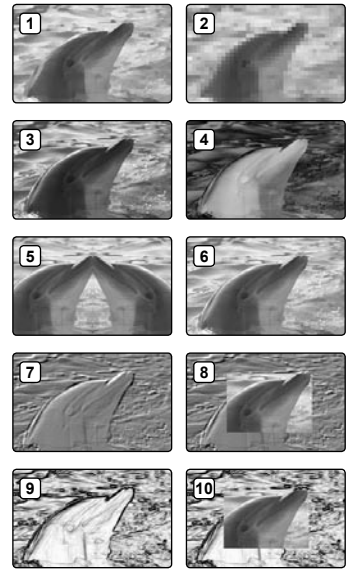
1. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ).
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Joystick (▲ / ▼)** up or down to select **"Camera"**, then press the **Joystick** or move the **Joystick (▶)** to the right.
5. Move the **Joystick (▲ / ▼)** up or down to select **"Visual Effect"**, then press the **Joystick**.
   - The available options are listed.
6. Move the **Joystick (▲ / ▼)** up or down to select the desired visual effect option, then press the **Joystick**.
   - The display mode is set to the selected mode.
7. To exit, press the **MENU** button.







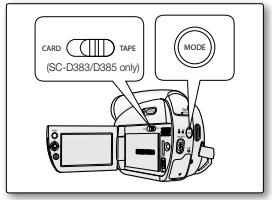
Settings	Contents
Off	Disables the function.
1 **Art**	This mode gives the images a coarse effect.
2 **Mosaic**	This mode gives the images a mosaic effect.
3 **Sepia**	This mode gives the images a reddish-brown pigment.
4 **Negative**	This mode reverses the colors, creating a negative image.
5 **Mirror**	This mode cuts the picture in half, using a mirror effect.
6 **BLK&WHT**	This mode changes the images to black and white.
7 **Emboss1**	This mode creates a 3D effect (embossing).
8 **Emboss2**	This mode creates a 3D effect (embossing) on surrounding area of an image.
9 **Pastel1**	This mode applies a pale pastel drawing effect to an image.
10 **Pastel2**	This mode applies a pale pastel drawing effect to the surrounding area of an image.



- **"Mirror"** mode is not available in the **"16:9 Wide"** mode. Release the 16:9 Wide mode first to set Mirror mode. ➥page 53
- **Visual Effect** modes are not available while **EASY.Q** is in use.
- The **"Mosaic", "Mirror", "Emboss2", "Pastel1"** and **"Pastel2"** modes are not available while **DIS** or **C.Nite** is in use. (Once **"DIS"** or **"C.Nite"** is set, **"Mosaic", "Mirror", "Emboss2"**, **"Pastel1"** or **"Pastel2"** mode will be released.)
- **"Digital Zoom"** is not available in the **"Mosaic", "Mirror", "Emboss2"** , **"Pastel1"** or **"Pastel2"** mode.

SETTING THE 16:9 WIDE MODE (16:9 WIDE)

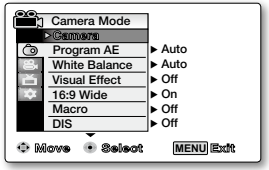
- The 16:9 wide function works only in **Camera** mode. ➥page 18
- Recordings in 16:9 wide will play back naturally only when the TV supports the 16:9 aspect ratio.
- This product is set to 16:9 wide by the factory default.



1. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)

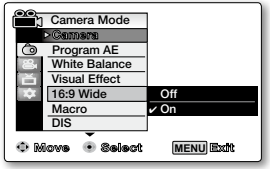
2. Press the **MODE** button to set **Camera** ( ).

3. Press the **MENU** button.
- The menu list will appear.



4. Move the **Joystick (▲ / ▼)** up or down to select **"Camera"**, then press the **Joystick** or move the **Joystick (▶)** to the right.

5. Move the **Joystick (▲ / ▼)** up or down to select **"16:9 Wide"**, then press the **Joystick**.



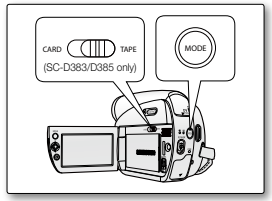
6. To activate the 16:9 wide function, move the **Joystick (▲ / ▼)** up or down to select **"On"**, then press the **Joystick**.
- If you do not want to use the 16:9 wide function, set the **"16:9 Wide"** menu to **"Off"**.

7. To exit, press the **MENU** button.
- 16:9 wide indicator is displayed.

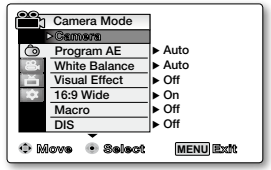
You cannot set the following functions in the 16:9 Wide mode. If you want to use the following functions, set the **"16:9 Wide"** menu to **"Off"** first.
- **"Mirror"** (Visual Effect)

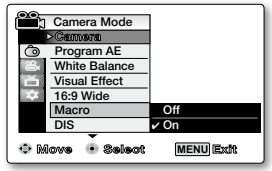
USING THE TELE MACRO (MACRO)

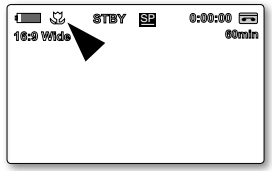
- Tele Macro function works in both **Camera** and **M.Cam** mode. ➥page 18
- Effective focal distance in Tele Macro mode is 50 cm (19.7 inches) to 100 cm (39.4 inches).



1. Set the **Select** switch to **CARD** or **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ).
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Joystick (▲ / ▼)** up or down to select **"Camera"**, then press the **Joystick** or move the **Joystick (▶)** to the right.
5. Move the **Joystick (▲ / ▼)** up or down to select **"Macro"**, then press the **Joystick**.
6. To activate the Macro function, move the **Joystick (▲ / ▼)** up or down to select **"On"**, then press the **Joystick**.
   - If you do not want to use the Macro function, set the **"Macro"** menu to **"Off"**.
7. To exit, press the **MENU** button.
   - Tele Macro ( ) indicator is displayed.



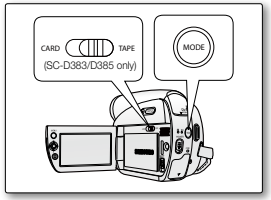




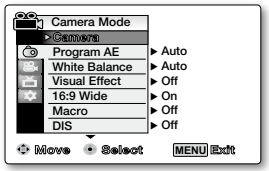
- When recording in Tele Macro mode, the focus speed may be slow.
- When you operate the zoom function in the Tele Macro mode, the recording subject may be out of focus.
- Use a tripod (not supplied) to prevent hand shake in the Tele Macro mode.
- Avoid shadows when recording in the Tele Macro mode.
- As the distance to the subject decreases, focusing area narrows.
- When you can not achieve proper focus, use the **Joystick (W/T)** or **Zoom** lever.

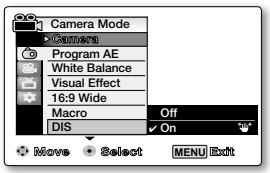
SETTING THE DIGITAL IMAGE STABILIZER (DIS)

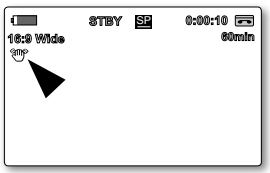
- The DIS function works only in **Camera** mode. ➥page 18
- DIS (Digital Image Stabilizer) is a function that compensates for any shaking or hand movement while holding the camcorder (within reasonable limits).
- It provides more stable pictures when:
  - Recording with the zoom
  - Recording a small object close-up
  - Recording and walking at the same time
  - Recording through the window of a vehicle



1. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ).
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Joystick (▲ / ▼)** up or down to select **"Camera"**, then press the **Joystick** or move the **Joystick (▶)** to the right.
5. Move the **Joystick (▲ / ▼)** up or down to select **"DIS"**, then press the **Joystick**.
6. To activate the DIS function, move the **Joystick (▲ / ▼)** up or down to select **"On"**, then press the **Joystick**.
   - If you do not want to use the DIS function, set the **"DIS"** menu to **"Off"**.
7. To exit, press the **MENU** button.
   - DIS ( ) indicator is displayed.







- EASY.Q mode automatically sets the **"DIS"** to **"On"**.
- You cannot set the following functions in the **DIS** mode.
  : **"Mosaic", "Mirror", "Emboss2", "Pastel1", "Pastel2", "C.Nite", "Digital Zoom"**
- Setting the DIS function in 16:9 Wide mode may produce lower quality than in normal mode.
- It is recommended that you deactivate the DIS function when using a tripod.
- If you use the DIS function, the picture quality may deteriorate.

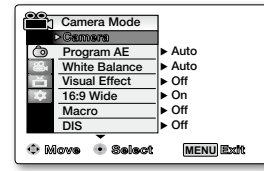
USING BACK LIGHT COMPENSATION MODE (BLC)

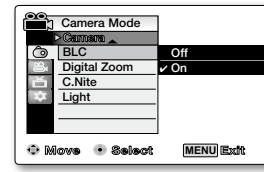
- BLC works in both **Camera** and **M.Cam** modes. ➥page 18
- Back lighting exists when the subject is darker than the background:
  - The subject is in front of a window.
  - The person to be recorded is wearing white or shiny clothes and is placed against a bright background; the person's face is too dark to distinguish his/her features.
  - The subject is outdoors and the background is overcast.
  - The light sources are too bright.
  - The subject is against a snowy background.

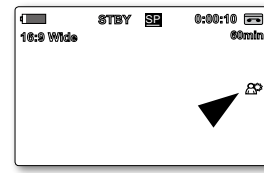
<BLC Off>

<BLC On>

1. Set the **Select** switch to **CARD** or **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ).
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Joystick (▲ / ▼)** up or down to select **"Camera"**, then press the **Joystick** or move the **Joystick (▶)** to the right.
5. Move the **Joystick (▲ / ▼)** up or down to select **"BLC"**, then press the **Joystick**.
6. Move the **Joystick (▲ / ▼)** up or down to select **"On"**, then press the **Joystick**.
   - If you do not want to use the BLC function, set the **"BLC"** menu to **"Off"**.
7. To exit, press the **MENU** button.
   - BLC ( ) indicator will be displayed.



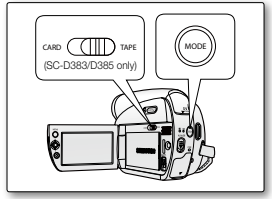




This function will be set to **"Off"** in the EASY Q mode.

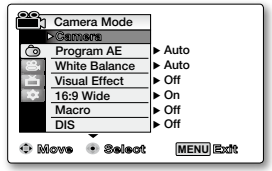
ZOOMING IN AND OUT WITH DIGITAL ZOOM (DIGITAL ZOOM)

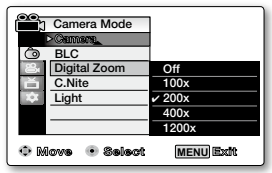
- Maximum Digital Zoom works only in **Camera** mode. ➥page 18
- You can select the maximum zoom level in case you want to zoom to a level greater than 34x (the default setting) during recording. Up to 34x zoom is performed optically, and after that, up to 1200x zoom is performed digitally.
- The picture quality may deteriorate depending on how much you digitally zoom in on the subject.

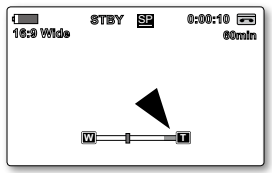


Selecting the Digital Zoom

1. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ).
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Joystick (▲ / ▼)** up or down to select **"Camera"**, then press the **Joystick** or move the **Joystick (▶)** to the right.
5. Move the **Joystick (▲ / ▼)** up or down to select **"Digital Zoom"**, then press the **Joystick**.
6. Move the **Joystick (▲ / ▼)** up or down to select the desired zoom value **"Off"**, **"100x"**, **"200x"**, **"400x"** or **"1200x"**, then press the **Joystick**.
   - **"Off"** : Optical zoom is only available up to 34x.
7. To exit, press the **MENU** button.
   - Move the **Joystick (▲ / ▼)** up or down, or move the **Zoom** lever to use the digital zoom.
   - The digital zoom indicator appears.



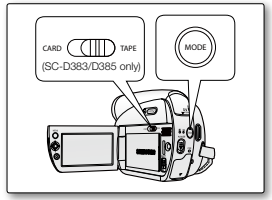




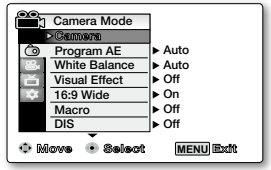
- Maximum digital zooming may result in lower picture quality.
- You cannot set the **Digital Zoom** mode in the following modes. Please release these functions first to set the Digital Zoom mode: **"EASY.Q", "Mosaic", "Mirror", "Emboss2", "Pastel1", "Pastel2", "DIS"**
- The Digital Zoom mode does not work in the following situations:
  - **Tape Photo Recording** (When recording a photo image on a tape)
  - While **"EASY.Q", "Mosaic", "Mirror", "Emboss2", "Pastel1", "Pastel2"** or **"DIS"** mode is in use.
- When you set the **DIS** mode while **Digital Zoom** mode is in use, Digital Zoom mode will be released.
- You cannot set the **C.Nite** mode while the **Digital Zoom** mode in use.

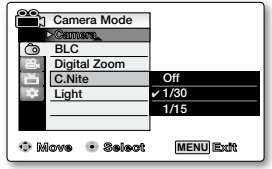
USING THE COLOR NITE (C.NITE)

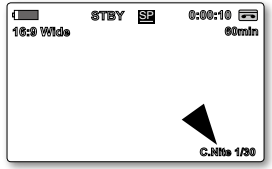
- C.Nite function works only in **Camera** mode. ➥page 18
- You can take a shot of an object in slow motion by controlling the shutter speed, or a brighter image in dark places without compromising colors.



1. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ).
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Joystick (▲ / ▼)** up or down to select **"Camera"**, then press the **Joystick** or move the **Joystick (▶)** to the right.
5. Move the **Joystick (▲ / ▼)** up or down to select **"C.Nite"**, then press the **Joystick**.
6. Move the **Joystick (▲ / ▼)** up or down to select the C.Nite type, then press the **Joystick**.
   - C.Nite type: **"Off"**, **"1/30"**, **"1/15"**.
7. To exit, press the **MENU** button
   - The indicator of the selected mode is displayed.
   - When the **"Off"** mode is selected, no indicator is displayed.



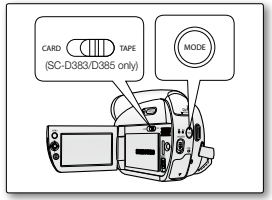




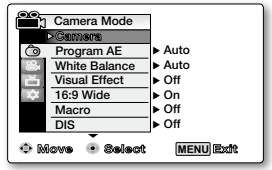
- When using C.Nite, the image takes on a slow motion like effect.
- When using C.Nite, the focus adjusts slowly and white dots may appear on the screen. This is not a defect.
- The C.Nite function does not work in the following situations:
  - When DIS or EASY.Q is set.
- While using the C.Nite function, you can not use the following functions:
  - **"Program AE", "Mosaic", "Mirror", "Emboss2", "Pastel1", "Pastel2", "BLC", "Digital Zoom", "Shutter", "Exposure"**
  - **Tape Photo Recording**
- If DIS is set, C.Nite mode will be released.

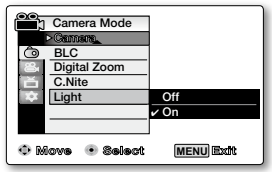
USING THE LIGHT (LIGHT) (SC-D382/D383/D385 ONLY)

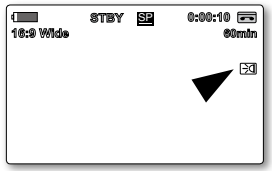
- The Light function works only in **Camera** and **M.Cam** mode. ➥page 18
- The Light function enables you to record a subject in a dark place without compromising colors. For example, you can make a satisfactorily recording of
- an outdoor gathering at night when you use this function.



1. Set the **Select** switch to **CARD** or **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ).
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Joystick (▲ / ▼)** up or down to select **"Camera"**, then press the **Joystick** or move the **Joystick (▶)** to the right.
5. Move the **Joystick (▲ / ▼)** up or down to select **"Light"**, then press the **Joystick**.
6. Move the **Joystick (▲ / ▼)** up or down to select **"On"**, then press the **Joystick**.
   - To cancel the Light function, set the **"Light"** menu to **"Off"**.
7. To exit, press the **MENU** button.
   - Light ( ) indicator will be displayed.







WARNING

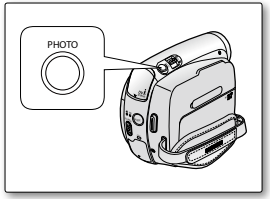
- The light can become extremely hot.
- Do not touch it while in operation or soon after turning it off, otherwise serious injury may occur.
- Do not place the camcorder into the carrying case immediately after using the light, since it remains extremely hot for some time.
- Do not use near flammable or explosive materials.

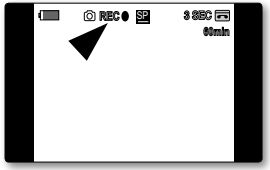
The range of the light is limited. (up to 2m (6.6ft))

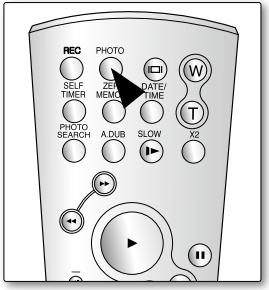
RECORDING A PHOTO IMAGE ON A TAPE -TAPE PHOTO RECORDING

- Tape photo recording works only in **Camera** mode. ➥page 18
- You can record a photo image on a tape. The photo image is recorded and will take up a 6~7 second section of tape.

1. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Camera** ( ).
3. Press the **PHOTO** button.
   - **"REC ●"** is displayed on the LCD screen, the photo image is recorded for about 6~7 seconds.
4. After the photo image has been recorded, the camcorder returns to its previous mode.







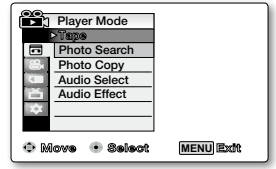
<SC-D382/D385 only>

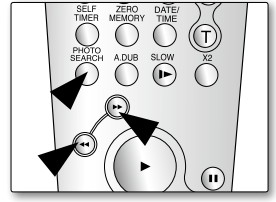
- Tape Photo Recording takes about six or seven seconds, and your camcorder returns to the standby mode. During the seven seconds, you cannot record another photo image.
- During the Tape Photo Recording, do not shake your camcorder. Mosaic-pattern noise may appear on the image.
- During the Tape Photo Recording, you can not set the following functions:
  - **"Visual Effect", "DIS" , "Digital Zoom", "C.Nite"**
  (After tape photo recording, most functions return to the previous mode.)
- Tape Photo Recording does not work in the following situations:
  - While recording movie images
  - When **"C.Nite"** is set.
- Your camcorder can also record photo images on a memory card. ➥page 76
- Press **PHOTO** button on the remote control. Pressing the **PHOTO** button on the remote control records the tape photo image with automatic focusing (SC-D382/D385 only)

SEARCHING FOR A PHOTO IMAGE ON A TAPE (PHOTO SEARCH)

- The photo search works only in **Player** mode. ➥page 18

1. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Player** (▶).
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Joystick (▲ / ▼)** up or down to select **"Tape"**, then press the **Joystick** or move the **Joystick (▶)** to the right.
5. Move the **Joystick (▲ / ▼)** up or down to select **"Photo Search"**, then press the **Joystick**.
   - ◀◀ / ▶▶ will flicker on the LCD screen.
6. Move the **Joystick (◀ / ▶)** left or right to search the tape photo image.
   - The photo search process appears while you are searching.
   - After completing the search, the camcorder displays the tape photo image.
   - When there are no photo images recorded on the tape, it will be fully rewound or forwarded.
7. To stop the photo search, move the **Joystick** down **(▼)** or press the **MENU** button.



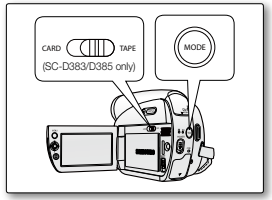


<SC-D382/D385 only>

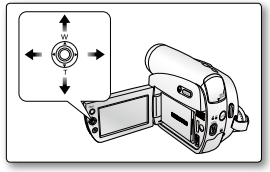
- The remote control will help you search for a desired photo image. (SC-D382/D385 only)
  - In STOP mode, press the **PHOTO SEARCH** button on the remote control. When the indictor blinks ◀◀ / ▶▶ on the screen, use the ◀◀ (rewind) or ▶▶ (fast forward) button to search for a desired image.
- You can find a photo image of your choice and copy it to the memory card. (SC-D383/D385 only) ➥page 86

PLAYING BACK A TAPE ON THE LCD SCREEN

- The playback function and speaker works only in **Player** mode. ➥page 18
- You can monitor the playback picture on the LCD screen.

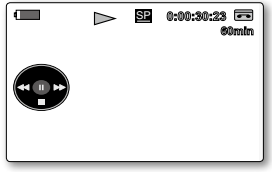


1. Insert the tape you wish to view. ➥page 34
2. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
3. Press the **MODE** button to set **Player** (▶).
4. Open the LCD screen.
   - Adjust the angle of the LCD screen and set the brightness or color if necessary. ➥page 31
5. Press the **Joystick**, then move the **Joystick (◀/▶)** left or right to rewind or forward the tape to the starting point.
   - To stop rewinding or forwarding, move the **Joystick** down **(▼)**.
   - The camcorder stops automatically after rewinding or forwarding is completed.
6. Press the **Joystick** to start playback.
   - You can view the picture you recorded on the LCD screen.
   - To stop the play operation, move the **Joystick** down **(▼)**.



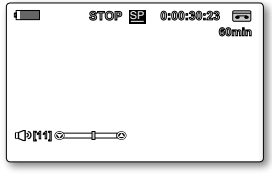
Adjusting the LCD Bright / LCD Color during Playback

- You can adjust the LCD bright/LCD color during playback.
- The adjustment method is the same procedure as used in **Camera** mode. ➥page 31



Adjusting the Volume

- When you use the LCD screen for playback, you can hear recorded sound from the built-in speaker.
  - Take the following steps to lower the volume or mute the sound while playing a tape on the camcorder.
- When sound is heard once the tape is in play, use the **Zoom(VOL)** lever to adjust the volume.
  - A volume level display will appear on the LCD screen.
  - Levels may be adjusted from anywhere between **"00"** to **"19"**.
  - If you close the LCD screen while playing, you will not hear sound from the speaker.
- When the Audio/Video cable is connected to the camcorder, you cannot hear sound from the built-In speaker and cannot adjust the volume.



VARIOUS FUNCTIONS WHILE IN PLAYER MODE

- This function works only in **Player** mode. ➥page 18
- The **PLAY**, **PAUSE**, **STOP**, **FF** and **REW** buttons are located on the remote control (SC-D382/D385 only), all of whose functions can also be operated with the **Joystick (▲/▼/◀/▶)** on the camcorder.
- The **F.ADV** (Frame advance), **X2** and **SLOW** buttons are located on the remote control only. (SC-D382/D385 only)
- To prevent tape and head-drum wear, your camcorder will automatically stop if it is left in pause or slow modes for more than 3 minutes.

Playback/Pause

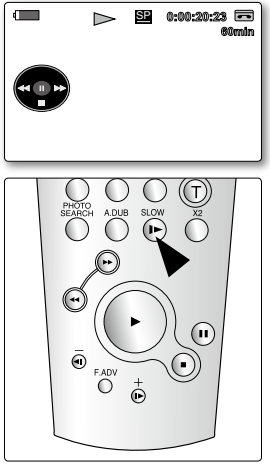
- Press the **Joystick** during playback.
- To resume playback, press the **Joystick**.
  (Press the ▶**(PLAY)** or ❚❚ **(PAUSE)** button on the remote control.)

Picture Search (Forward/Reverse)

- Move the **Joystick (◀/▶)** left or right during playback or pause mode.
  To resume normal playback, press the **Joystick**.
  (Press the ◀◀ **(REW)** / ▶▶ **(FF)** buttons on the remote control.)

Slow Playback (Forward/Reverse) (SC-D382/D385 only)

- Forward Slow Playback
  - Press the ❚►**(SLOW)** button on the remote control during playback.
  - To resume normal playback, press the ▶**(PLAY)** button.
- Reverse Slow Playback
  - Press the ◀❚❚ **(-)** button during forward slow playback.
  - To resume forward slow playback, press the ❚❚▶**(+)** button.
  - To resume normal playback, press the ▶**(PLAY)** button.

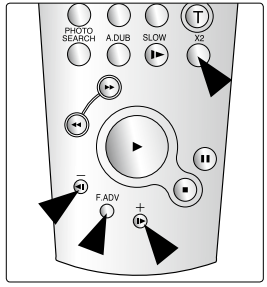


<SC-D382/D385 only>

playback

Frame Advance (To play back frame by frame) (SC-D382/D385 only)

- Press the **F.ADV** button on the remote control while in pause mode.
  - Video sequence advances frame by frame each time you press the **F.ADV** button or **II▶(+)** button.
  - The F.ADV function works in pause mode only.
- To resume normal playback, press the **▶(PLAY)** button.
  - **Forward frame advance.**
    Press the **F.ADV** button or **II▶(+)** button on the remote control in pause mode.
  - **Reverse frame advance**
    Press the **◀II (-)** button on the remote control to change the direction in F.ADV mode.



<SC-D382/D385 only>

X2 Playback (Forward/Reverse) (SC-D382/D385 only)

- Forward X2 Playback
  - Press the **X2** button on the remote control during playback.
  - To resume normal playback, press the **▶(PLAY)** button.
- Reverse X2 Playback
  - Press the **◀II (-)** button during forward X2 playback.
  - To resume normal playback, press the **▶(PLAY)** button.

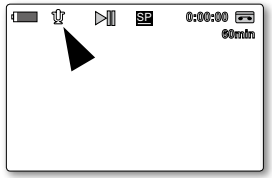
Reverse Playback (SC-D382/D385 only)

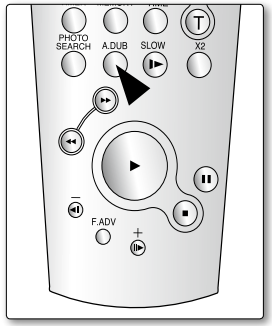
- To play back in reverse at normal speed, press the **◀II (-)** button on the remote control during normal forward playback.
- Press the **▶(PLAY)** button or **II▶(+)** button to return to normal forward playback.

- Mosaic shaped distortion may appear on the screen while in some of the various playback modes. Mosaic shaped distortion or noise may be experienced when you play back tapes recorded in LP which contain various playback functions.
- Sound will only be heard during normal SP or LP playback.
- To activate the remote control, set **"Remote"** to **"On"**. ➥page 25 (SC-D382/D385 only)

AUDIO DUBBING (SC-D382/D385 ONLY)

- This feature enables you to dub your voice through the internal microphone or other audio equipment connected to the camcorder onto a pre-recorded camcorder tape. The original sound on the tape will not be erased.
- The Audio Dubbing function works only in **Player** mode. ➥page 18
- You can not dub sound on a pre-recorded tape in LP or 16 bit mode.
- You can add sound to the original sound on a pre-recorded tape recorded in SP mode with 12bit sound.





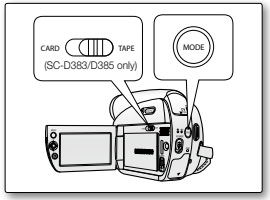
<SC-D382/D385 only>

1. Set the **Select** switch to **TAPE**. (SC-D385 only)
2. Press the **MODE** button to set **Player** (▶).
3. Move the **Joystick (◀/▶)** left or right and find the time frame of the scene to be dubbed.
4. Press the **Joystick** to playback, and press it again to pause the scene.
   - If you want to resume to playback, just press the **Joystick** again on playback.
5. Press the **A.DUB** button on the remote control.
   - Audio dubbing ( ) indicator is displayed.
   - The camcorder is ready for dubbing.
6. Press the **▶(PLAY)** button (on the remote control) or **Joystick** to start dubbing.
   - Press the **■ (STOP)** button (on the remote control) or move the **Joystick** down **(▼)** to stop the dubbing.

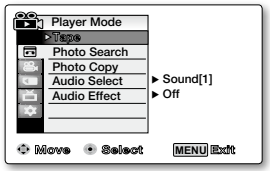
You can not use the Audio Dubbing function while playing a write protected video tape.

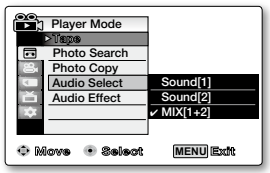
DUBBED AUDIO PLAYBACK (AUDIO SELECT)

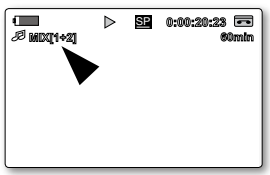
- The dubbed Audio playback function works only in **Player** mode. ➥page 18



1. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Player** (▶).
3. Insert the dubbed tape and press the **MENU** button.
   - The menu list will appear.
4. Move the **Joystick (▲ / ▼)** up or down to select **"Tape"**, then press the **Joystick** or move the **Joystick (▶)** to the right.
5. Move the **Joystick (▲ / ▼)** up or down to select **"Audio Select"**, then press the **Joystick**.
6. Move the **Joystick (▲ / ▼)** up or down to select the audio playback channel, then press the **Joystick**.
   - **"Sound[1]"** : Plays the original sound.
   - **"Sound[2]"** : Plays the dubbed sound.
   - **"MIX[1+2]"** : Plays back sound 1 and 2 equally mixed.
7. To exit, press the **MENU** button.
8. Press the **Joystick** to play back the dubbed tape.
   - To stop the dubbed audio playback, move the **Joystick** down **(▼)**.



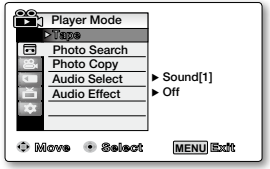




When you play back added sound "**Sound[2]**" or "**MIX[1+2]**", you may experience a loss of sound quality.

AUDIO EFFECT

- Audio effect function works only in **Player** mode. ➥page 18
- Audio effect provides various playback effects to audio signals stored on a tape.

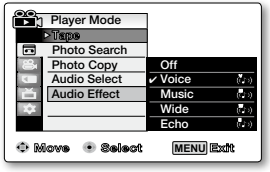


1. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)

2. Press the **MODE** button to set **Player** (▶).

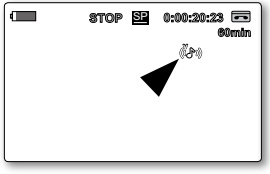
3. Insert the recorded tape and press the **MENU** button.

4. Move the **Joystick (▲ / ▼)** up or down to select **"Tape"**, then press the **Joystick** or move the **Joystick (▶)** to the right.



5. Move the **Joystick (▲ / ▼)** up or down to select **"Audio Effect"**, then press the **Joystick**.

6. Move the **Joystick (▲ / ▼)** up or down to select the audio effect channel, then press the **Joystick**.
- **"Off"**: Disables the function.
- **"Voice"**: Highlights the human voice.
- **"Music"**: Highlights the sound by enhancing the bass and treble.
- **"Wide"**: Magnifies the stereo effect by enhancing the left and right sounds.
- **"Echo"**: Gives an echo effect.



7. To exit, press the **MENU** button.

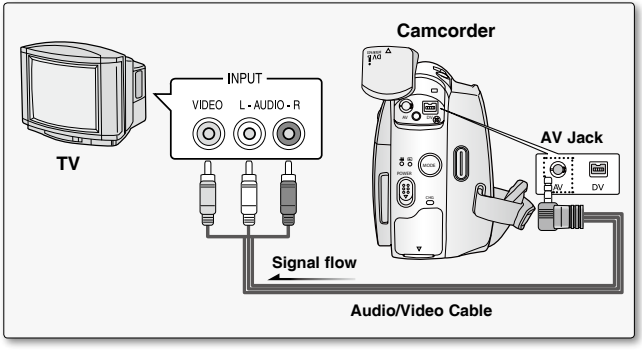
- We recommended connecting to external stereo devices (TV, speakers) for better audio effects.
- Audio effect function is not available with DV connection.

PLAYING BACK A TAPE ON A TV SCREEN

- The playback function works only in **Player** mode. ➥page 18
- To play back a tape, the television must be NTSC compatible. ➥page 100
- We recommend that you use the AC power adapter as the power source for the camcorder.

Connecting to a TV that has Audio/Video Input Jacks

1. Connect the camcorder to your TV with the Audio/Video cable.
   - The yellow jack: Video
   - The white jack: Audio(L)-mono
   - The red jack: Audio(R)
   - If you connect to a mono TV, connect the yellow jack (Video) to the video input of the TV and the white jack (Audio L) to the audio input of the TV.
2. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
3. Press the **MODE** button to set **Player** (▶).
4. Turn on the TV and set the TV/VIDEO selector on the TV to Video.
   - Refer to the TV user's manual.
5. Play the tape. ➥page 69

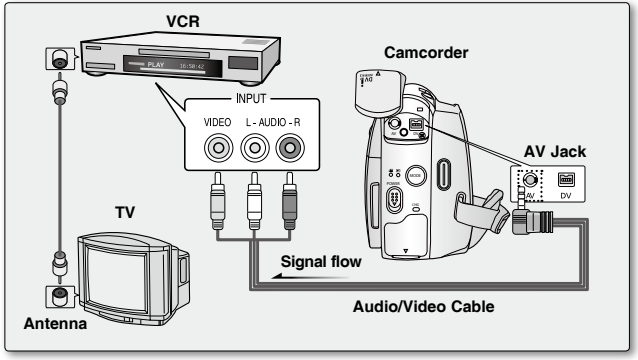


If you connect the cable to the AV jack, you will not hear sound from the camcorder's speaker.

Connecting to a TV that has no Audio/Video Input Jacks

- You can connect your camcorder to a TV through a VCR.

1. Connect the camcorder to your VCR with the Audio/Video cable.
   - The yellow jack: Video
   - The white jack: Audio(L) - mono
   - The red jack: Audio(R)
2. Connect a TV to the VCR.
3. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
4. Press the **MODE** button to set **Player** (▶).
5. Turn on both the TV and VCR.
   - Set the input selector on the VCR to line.
   - Select the channel reserved for your VCR on the TV set.
6. Play the tape.



Play back the tape

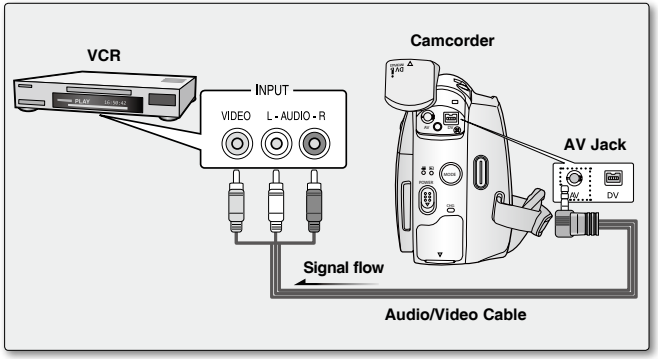
1. Connect a power source.
2. Insert the tape you wish to play back.
3. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
4. Press the **MODE** button to set **Player** (▶).
5. Move the **Joystick (◀/▶)** left or right, find the first position you wish to play back.
6. Press the **Joystick**.
   - The images you recorded will appear on the TV after a few seconds.
   - If a tape reaches its end while being played back, the tape will rewind automatically.
7. To stop the playback, move the **Joystick** down **(▼)**.

- The playback mode (SP/LP) is selected automatically.
- If only a mono audio input is available on the TV set, use the audio cable with the white jack (Audio L).

COPYING A CAMCORDER TAPE ONTO A VIDEO TAPE

- The copying function works only in **Player** Mode. ➥ page 18
- Connect your camcorder to a VCR using the AV jack to copy the recording from a camcorder tape onto a VCR tape.

1. Insert the tape you want to copy in your camcorder.
2. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
3. Press the **MODE** button to set **Player** (▶).
4. Insert a new video tape in your VCR.
5. Connect the camcorder to your VCR with the Audio/Video cable.
   - Connect the Audio/Video cable to the input jack on your VCR.
   - The yellow jack: Video
   - The white jack: Audio(L)-mono
   - The red jack: Audio(R)
6. Press the Record button on your VCR to start recording.



7. Play the tape on your camcorder. Please refer to page 69 to see how to play a tape.
   - if you do not want to copy the screen display, set the **"TV Display"** to **"Off"** in the menu. ➥ page 33

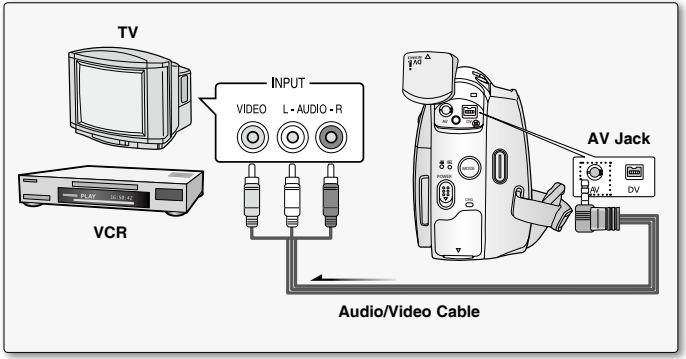
When Copying is Complete:

Stop recording on your VCR, then move the **Joystick** down **(▼)** on your camcorder.

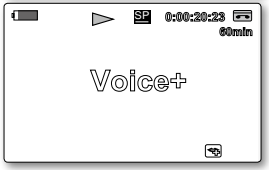
- If you operate the camcorder while connected to another device, always connect the camcorder to an AC outlet using the AC power adapter.
- You can also copy images to other external storage media (such as a DVD Recorder) using this camcorder.

USING THE VOICE+ FUNCTION

- The Voice+ function works only in **Player** mode. ➥ page 18
- When copying (dubbing) a tape recorded on the camcorder to another AV device, you can dub your voice through the camcorder's internal microphone to the device, instead of the existing audio on the recorded tape.



1. Connect the provided Audio/Video cable to the AV Jack of the camcorder.
2. Connect the other end of the cable to the VCR/DVD Recorder/TV by matching the colors of the terminals.
3. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
4. Press the **MODE** button to set **Player** (▶).
5. Insert the tape you wish to play back in this camcorder.
6. Press the **Recording start/stop** button at a desired point during playback.
   - Voice+ ( ) indicator is displayed on the screen and **"VOICE+"** will flicker on the screen for a while.
   - Sound incoming from the internal microphone will be transferred to the connected AV device, instead of the pre-recorded sound on the tape.
7. To cancel the function, press the **Recording start/stop** button again.

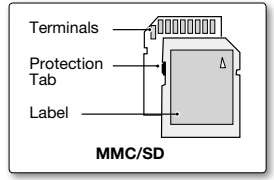


- Voice+ is available only when the Audio/Video cable is connected. If a different cable (DV or USB cable (SC-D383/D385 only)) is connected, Voice+ function may not operate properly.
- If you move the **Joystick (▲/▼/◀/▶)** when you operate Voice+ function, Voice+ function will be deactivated.
- During the Voice+ process, the **MENU** and **PHOTO** button functions do not work.
- The Voice+ function does not affect the original sound on the recorded tape.
- Sound is transferred from the internal microphone on this camcorder to the connected AV device, when using the Voice+ function. So make sure that this microphone is not blocked.
- Adjust the sound volume on the connected external device. (TV, etc.)
- Feedback may occur if you move the camcorder too close to the speaker of the external device.
- Before connecting, make sure that the volume on the external device is turned down. Forgetting this may cause feedback from the external device's speakers.

digital still camera mode (SC-D383/D385 only)

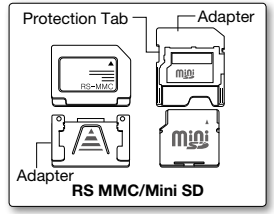
USING A MEMORY CARD (USABLE MEMORY CARD) (NOT SUPPLIED)

- This camcorder can use SD memory cards and MMC (Multi Media Cards). Some cards are not compatible depending on the memory card manufacturer and memory card type.
- The memory card stores and manages images recorded by the camcorder.
- Before inserting or ejecting the memory card, turn the miniDV camcorder off.



Memory Card Functions

- Recording/Viewing Images.
- Protecting Images from accidental erasure. (except MMC)
- The MMC does not have a protection tab. When using the MMC, be careful not to edit or delete data by mistake.
- Deleting images stored in memory card
- Marking photo images with print Information
- Formatting memory cards



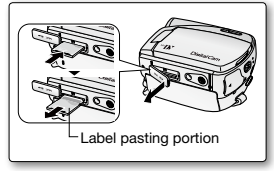
*RS MMC or Mini SD should be inserted by using an Adapter (not supplied)

Inserting a Memory Card

1. Open the memory card cover.
2. Insert the memory card into the memory card slot until it softly clicks.
3. Close the memory card cover.

Ejecting a Memory Card

1. Open the memory card cover.
2. Slightly push the memory card inwards to pop it out.
3. Pull the memory card out of the slot and close the memory card cover.



* 1GB = 1,000,000,000 bytes; actual formatted capacity may be less as the internal firmware uses a portion of the memory.

- Do not apply excessive force when you insert/eject the memory card.
- Do not turn the power off while recording, loading, erasing a photo image or formatting the memory card.
- Turn the power off before you insert or eject the memory card to avoid losing data.
- Do not place the memory card near a strong electro-magnetic device.
- Do not allow metal substances to come in contact with the terminals on the memory card.
- Do not bend, drop or apply strong shock to memory card.
- After removing the memory card from the camcorder, keep it in a soft case to prevent static shock.
- The data stored on the memory card may be changed or lost as a result of misuse, static electricity, electric noise or repair. Save important images separately. Samsung is not responsible for data loss due to misuse.
- RS-MMC or Mini SD should be inserted by using the Adaptor (not supplied).
- In **M.Cam** or **M.Player** mode, the 16:9 wide mode is not supported. The wide screen only displays in the aspect ratio of 4:3.
- The camcorder supports up to 2GB SD/MMC. SD/MMC above 2GB may not record or play properly.

STRUCTURE OF FOLDERS AND FILES ON THE MEMORY CARD

- The folder and file structure for the memory card is as follows:
- Do not arbitrarily change or remove the folder or file name. It may not be playable.
- The file naming follows DCF (Design rule for Camera File System).

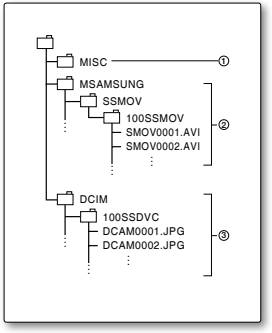


Image configuration file 1

This is where data for photo files such as DPOF are stored.

Movie image file 2

The movie images are formatted with a file name as follows: SMOV_####.AVI. The file number automatically increases when a new movie image file is created. When the number of files exceeds 99, a new folder is created and it is stored as 101SSMOV.

Photo image file 3

As with movie image files, the file number automatically increases when a new image file is created. When the number of photo images exceeds 99, a new folder is created.
A new folder stores files from DCAM_0001.JPG. The folder name increases in the order of 100SSDVC →101 SSDVC, etc.

digital still camera mode (SC-D383/D385 only)

Image format

Photo image

- Photo images are compressed in JPEG (Joint Photographic Experts Group) format.
- The file extension is ".JPG"
- The image size is 800x600. ➥page 76 (Tape Capture 640x480)

Movie image

- Images are compressed in MPEG4 (Moving Picture Experts Group) format.
- The file extension is ".AVI"
- The picture size is 720X480. ➥page 82

- Up to 99 files are created in one folder. New folder is created when more than 99 files are created.
- You may modify the name of a file/folder stored in the memory card) using a PC. This camcorder may not recognize modified files.

Number of Images on the Memory Card

Photo Size	128MB	256MB	512MB	1GB	2GB
800x600	Approx. 600	Approx. 1200	Approx. 2400	Approx. 4830	Approx. 9740

- The number of images that can be stored on a memory card depends on various conditions.
- Photo images (JPEG) can be stored in the memory card up to 20,000 files.

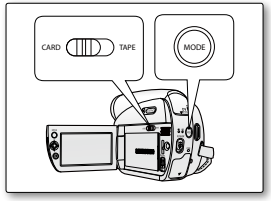
Recording time available on a Memory Card

	128MB	256MB	512MB	1GB	2GB
Moving image	Approx. 8min	Approx. 16min	Approx. 32min	Approx. 64min	Approx. 120min

- These times are approximate as recording capacities can be affected by variables such as subject matter and memory card type.

SETTING THE FILE NUMBER (FILE NO.)

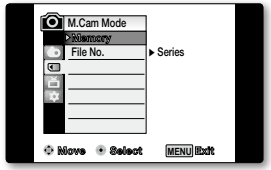
- File number setting works only in **M.Cam** mode. ➥page 18
- File numbers are given to images in the order they were recorded when they are stored on the memory card.
- File numbers may be set as follows:
  - **"Series"**: When there are existing files, the new image will be named as the next number in the sequence.
  - **"Reset"**: When there are no files stored on the memory card, the file numbering starts from 0001.



1. Set the **Select** switch to **CARD**.

2. Press the **MODE** button to set **Camera** ( ).

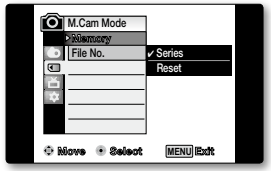
3. Press the **MENU** button.
- The menu list will appear.



4. Move the **Joystick (▲ / ▼)** up or down to select **"Memory"**, then press the **Joystick**.

5. Move the **Joystick (▲ / ▼)** up or down to select **"File No."**, then press the **Joystick**.

6. Move the **Joystick (▲ / ▼)** up or down to select the desired option **"Series"** or **"Reset"**, then press the **Joystick**.



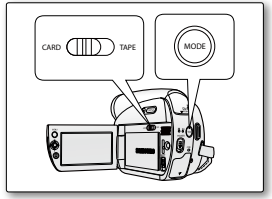
7. To exit, press the **MENU** button.

When you set **"File No."** to **"Series"**, each file is assigned with a different number so as to avoid duplicating file names. It is convenient when you want to manage your files on a PC.

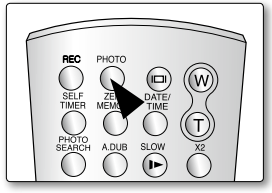
digital still camera mode (SC-D383/D385 only)

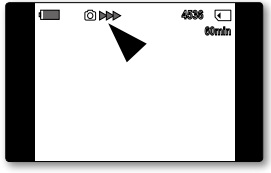
TAKING A PHOTO IMAGE (JPEG) ON THE MEMORY CARD

- You may take photo images while in **M.Cam** mode and store the images on the memory card. ➥page 18
- You can take photo images using the remote control.



1. Set the **Select** switch to **CARD**.
2. Press the **MODE** button to set **Camera** ( ).
3. After framing your object to record, fully press the **PHOTO** button to take the picture.
   - The picture is taken and saved into the memory card within a few seconds.
   - Taking another picture within this interval is not possible.
   - A shutter sound is heard. When the **" ▶▶▶"** indicator disappears, the photo image has been recorded.

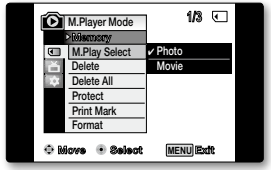




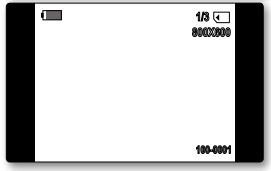
- Photo images are saved more widely than have been taken in LCD screen when taking a photo.
- Photo images are saved in the memory card in 800x600 format.
- The number of photo images that can be stored depends on the quality of the image.
- Up to 20,000 photo images (JPEG) can be stored in a memory card.
- The photo images that you recorded are saved in JPEG file format on the memory card.
- In M.Cam or M.Player mode, the 16:9 wide mode is not supported. The wide mode only displays in the 4:3 aspect ratio.
- Audio will not be recorded with the photo image on the memory card.
- Do not operate the **POWER** switch or remove the memory card while recording photo images. Doing so may damage the memory card.

VIEWING PHOTO IMAGES (JPEG)

- This function works only in **M.Player** mode. ➥page 18
  You can play back and view photo images recorded on the memory card.
- Be sure that the **M.Play Select** is set to **Photo** in the menu. ➥page 84



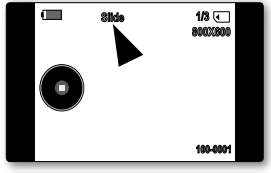
1. Set the **Select** switch to **CARD**.
2. Press the **MODE** button to set **Player** (▶).
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Joystick (▲ / ▼)** up or down to select **"Memory"**, then press the **Joystick**.
5. Move the **Joystick (▲ / ▼)** up or down to select **"M.Play Select"**, then press the **Joystick**.
6. Move the **Joystick (▲ / ▼)** up or down to select **"Photo"**, then press the **Joystick**.
7. To exit the menu, press the **MENU** button.



To view a Single Image

Move the **Joystick (◀ / ▶)** left or right to search for the desired photo image.

- To view the next image: Move the **Joystick (▶)** to the right.
- To view the previous image: Move the **Joystick (◀)** to the left.
- Press and hold the **Joystick (◀ / ▶)** to either the left or right to quickly scan for a photo image.

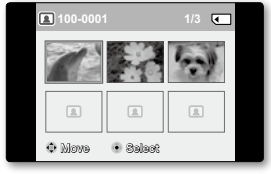


To view a Slide Show

Press the **Joystick**.

- **"Slide"** is displayed. The Slide Show will start from the current picture.
- All images will be played back consecutively for 2~3 seconds each.

To stop the slide show, press the **Joystick** again.



To view the Multi Display

If you move the **Joystick** down **(▼) (▦)**, you will see a message of **"Please wait.."** and 6 photo images will appear on the screen in a moment.

- To display the previous six images, press and hold the Joystick (◀) for about 3 seconds.
- To display the next six images, press and hold the Joystick (▶) button for about 3 seconds.
- Move the **Joystick (◀/▶/▲/▼)** to search for the desired photo image.

To return to single playback mode, press the **Joystick** again.

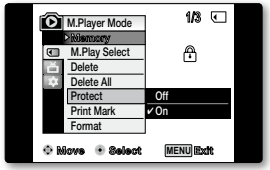
- Selected picture is displayed in full screen.

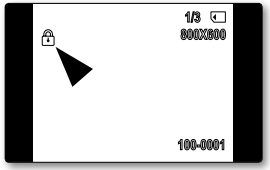
Any large sized image taken with another device will be displayed as a thumbnail image.

PROTECTION FROM ACCIDENTAL ERASURE (PROTECT)

- The Protection function works only in **M.Player** mode. ➥page 18
- You can protect important images from accidental erasure.
  If you format the camcorder, all images including protected images will be erased.

1. Set the **Select** switch to **CARD**.
2. Press the **MODE** button to set **Player** (▶).
   - The last recorded image appears.
   - If there are no recorded images on the memory card, **"No image!"** is displayed.
3. Move the **Joystick (◀ / ▶)** left or right to search for the photo image that you want to protect.
4. Press the **MENU** button.
   - The menu list will appear.
5. Move the **Joystick (▲ / ▼)** up or down to select **"Memory"**, then press the **Joystick**.
6. Move the **Joystick (▲ / ▼)** up or down to select **"Protect"**, then press the **Joystick**.
7. Move the **Joystick (▲ / ▼)** up or down to select **"On"**, then press the **Joystick**.
8. To exit, press the **MENU** button.
   - Protection (🔒) indicator is displayed.



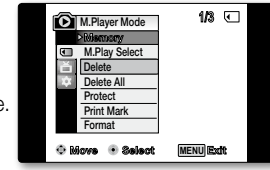


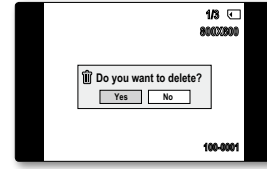
- If the write protection tab on the memory card is set to LOCK, you cannot set image protection.
- Protected images can not be removed in any way even by executing the **"Delete All"** command in the menu.

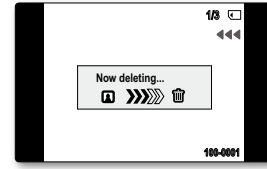
DELETING PHOTO IMAGES AND MOVING IMAGES (DELETE)

- The Delete function works only in **M.Player** mode. ➥page 18
- You can erase the photo images and moving images recorded on the memory card.
- To delete a protected image, first cancel image protection.
- Once you delete an image, you cannot restore it. Check the images carefully before deleting them.

1. Set the **Select** switch to **CARD**.
2. Press the **MODE** button to set **Player** (▶).
   - The last recorded image appears.
   - If there are no recorded images on the memory card, **"No image!"** is displayed.
3. Move the **Joystick (◀/▶)** left or right, search for the photo image that you want to delete.
4. Press the **MENU** button.
   - The menu list will appear.
5. Move the **Joystick (▲ / ▼)** up or down to select **"Memory"**, then press the **Joystick**.
6. Move the **Joystick (▲ / ▼)** up or down to select **"Delete"**, then press the **Joystick**.
   - A message **"Do you want to delete?"** is displayed.
7. Move the **Joystick (◀ / ▶)** left or right to select **"Yes"** or **"No"**, then press the **Joystick**.





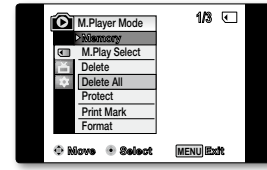


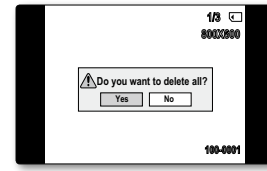
Using the Joystick

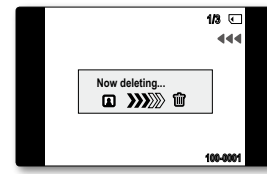
- You can directly access the delete function using the **Joystick**.

1. Move up the **Joystick (▲)** to select **"Delete (🗑)"**.
   - A message **"Do you want to delete?"** is displayed.
2. Move the **Joystick (◀ / ▶)** left or right to select **"Yes"** or **"No"**, then press the **Joystick**.

Deleting All Images at Once







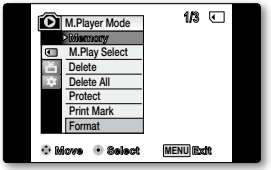
1. Set the **Select** switch to **CARD**.
2. Press the **MODE** button to set **Player** (▶).
   - The last recorded image appears.
   - If there are no recorded images on the memory card, **"No image!"** is displayed.
3. Move the **Joystick (◀ / ▶)** left or right, search for the photo image that you want to delete.
4. Press the **MENU** button.
   - The menu list will appear.
5. Move the **Joystick (▲ / ▼)** up or down to select **"Memory"**, then press the **Joystick**.
6. Move the **Joystick (▲ / ▼)** up or down to select **"Delete All"**, then press the **Joystick**.
   - A message **"Do you want to delete all?"** is displayed.
7. Move the **Joystick (◀ / ▶)** left or right to select **"Yes"** or **"No"**, then press the **Joystick**.
8. To exit, press the **MENU** button.

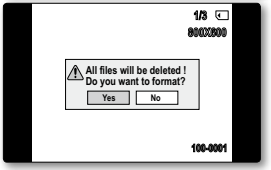
- When there is no stored picture on the memory card, the message **"No image!"** will be displayed.
- If an erroneous image file is found on the memory card, the message **"Memory Card Error!"** will be displayed. It may be caused by copying images from different digital devices.
- To protect important pictures from accidental deletion, activate the image protection. ➥page 78
- You can use the format functions to completely delete all images and options on the memory card, including protected images. ➥page 81
- Deleting all files using the **"Delete All"** menu may take a while. To delete all files much faster, format the memory card after backing up the files onto another storage device.

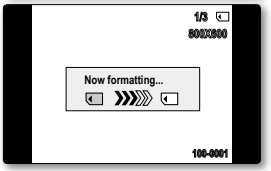
FORMATTING A MEMORY CARD (FORMAT)

- The format function works only in **M.Player** mode. ➥page 18
- You can use the format functions to completely delete all images and options on the memory card, including protected images.
- The format function restores the memory card to its initial state.

1. Set the **Select** switch to **CARD**.
2. Press the **MODE** button to set **Player** (▶).
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Joystick (▲ / ▼)** up or down to select **"Memory"**, then press the **Joystick**.
5. Move the **Joystick (▲ / ▼)** up or down to select **"Format"**, then press the **Joystick**.
   - A message **"All files will be deleted! Do you want to format?"** is displayed.
6. Move the **Joystick (◀ / ▶)** left or right to select **"Yes"** or **"No"**, then press the **Joystick**.
   - **"Complete!"** is displayed when the format is completed.
7. To exit, press the **MENU** button.







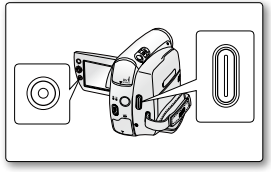
- If you execute the format function, all photo images/moving images will be erased completely and cannot be recovered.
- Formatting the memory card using a different device will cause memory card read errors.
- Do not turn the power off in the middle of the formatting.
- A memory card with the protection tab set to save will not be formatted. ➥page 72
- Do not format the memory card on a PC. **"Not formatted!"** message may appear if a memory card formatted on a PC is inserted in the camcorder.

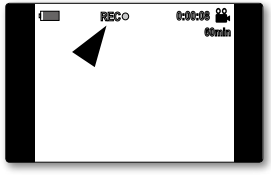
digital still camera mode (SC-D383/D385 only)

RECORDING MOVING IMAGES (MPEG) ON A MEMORY CARD

- You may record moving images while in **M.Cam** mode and store the images on a memory card. ➥page 18
- You can record moving images with audio on a memory card.
- The screen format of the moving image to be recorded is 720X480.
- Recording time available on a memory card. ➥page 74

Saving moving images onto a Memory Card





1. Set the **Select** switch to **CARD**.
2. Press the **MODE** button to set **Camera** ( ).
3. Press the **Recording start/stop** button, the moving images are recorded on the memory card in MPEG4.
   - **"REC●"** is displayed on the LCD screen.
   - You can record a photo image on memory card by pressing the **PHOTO** button instead of the **Recording start/stop** button. ➥page 76
4. Press the **Recording start/stop** button to stop the recording.

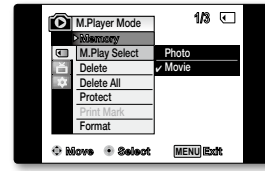
RECORDING MOVING IMAGES (MPEG) ON A MEMORY CARD

- Up to 2000 MPEG files can be stored on a memory card.
- MPEG files (moving images) can be recorded up to 2 GB per a moving file.
- Before using the recording a moving image function, check whether the memory card is inserted into the camcorder.
- **MENU** button is not available while recording a moving image. To use **MENU** button, stop recording. Recording a moving image is not available when a MENU is displayed on the screen. To start recording, press the **MENU** button to make the menu disappear.
- Moving images that you recorded are saved in *.avi (avi 1.0) file format on the memory card.
- The moving images on a memory card are a smaller size and lower definition than images on tape.
- The sound is recorded in mono.
- The following functions can not be performed in **M.Cam** mode. **"DIS", "Digital Zoom", "Fade", "Program AE", "Visual Effect"**,**"16:9 Wide"**,**"C.Nite"**
- While recording on a memory card, don't insert or eject the tape as it may record noise.
- While recording on a memory card, don't eject the memory card or it may break the data on the memory card or memory card itself.
- Turning the power off while accessing the memory card may damage the data stored on the memory card.

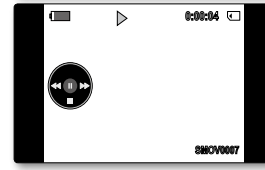
digital still camera mode (SC-D383/D385 only)

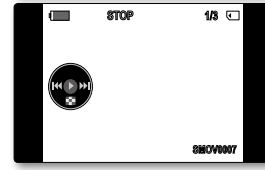
PLAYING THE MOVING IMAGES (MPEG) ON A MEMORY CARD (M.PLAY SELECT)

- The moving Images playback function works only in **M. Player** mode. ➥page 18
- You can play the moving images on a memory card.
- The playback picture will be of higher quality if it is viewed on a PC rather than on a TV.



1. Set the **Select** switch to **CARD**.
2. Press the **MODE** button to set **Player** (▶).
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Joystick (▲ / ▼)** up or down to select **"Memory"**, then press the **Joystick**.
5. Move the **Joystick (▲ / ▼)** up or down to select **"M.Play Select"**, then press the **Joystick**.
6. Move the **Joystick (▲ / ▼)** up or down to select **"Movie"**, then press the **Joystick**.
7. To exit the menu, press the **MENU** button.
8. Move the **Joystick (◀ / ▶)** to search for the desired moving image, then press the **Joystick**.
   - The moving images recorded on the memory card will be played back.
9. To stop the playback, move the **Joystick** down **(▼)**.
   - Use the **Zoom** lever to adjust the volume in STOP mode.
   - Move the **Joystick (▪) down** in STOP mode.
     - You will see a message of **"Please wait.."** and thumbnails of 6 moving images will appear moment.
     - Move the **Joystick (◀/▶/▲/▼)** to search for the desired moving image, then press the **Joystick.**
   - Use the **Joystick** to enjoy various playback operations.
     - Press the **Joystick** to pause or play back.
     - Move the **Joystick** right or left to search during playback or pause mode.

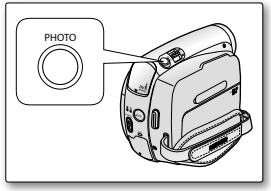




- The **MENU** button is not available during moving image playback. To use the **MENU** button, stop playback. Moving image playback is not available when a MENU is displayed on the screen. To start playback, press **MENU** button to make it disappear.
- There may be broken or mosaic pictures while playing the moving images, but it is not a malfunction.
- The moving images that you recorded on the memory card may not play on other manufacturer's equipment.
- The moving images recorded by another camcorder may not play on this camcorder.
- To play back moving images on a PC, the video codec (in the CD provided with the camcorder) should be installed.
  - You need Microsoft Windows Media Player version 9 or higher version in order to play moving images on the memory card on your PC.
  - You can download Microsoft Windows Media Player with your desired language from the Microsoft website, "http://www.microsoft.com/windows/windowsmedia/download/default.asp".

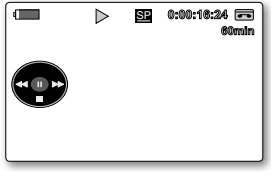
RECORDING AN IMAGE FROM A TAPE AS A PHOTO IMAGE

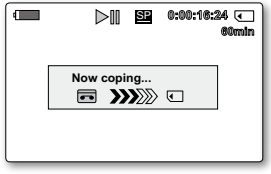
- This function works only in **Player** mode. ➥page 18
- Your camcorder can read moving image data recorded on a tape, and record it as a photo image on a memory card.



Before operation
Insert a recorded tape and a memory card into your camcorder.

1. Set the **Select** switch to **TAPE**.
2. Press the **MODE** button to set **Player** (▶).
3. Press the **Joystick**, playback the cassette.
   - The image recorded on the tape is played back.
4. Press the **PHOTO** button.
   - The photo image is recorded on the memory card.
   - During the time it takes to save an image, the playback screen is paused and the OSD is displayed.
5. When you finish the recording, move the **Joystick** down **(▼)** to stop recording and switch the mode to **M. Player** : Card to see your Photo. ➥page 77



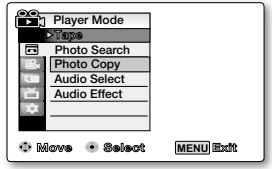


- Photo images copied from the cassette to the memory card are saved in 640x480 format.
- Number of images you can save varies depending on the image resolution.

digital still camera mode (SC-D383/D385 only)

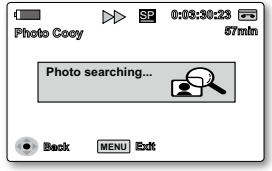
COPYING A PHOTO IMAGE FROM A TAPE TO A MEMORY CARD (PHOTO COPY)

- The photo copy function works only in **Player** mode. ➥page 18
- Using the search function, you can automatically take photo images from tapes recorded in your miniDV camcorder and record them on a memory card in sequence.

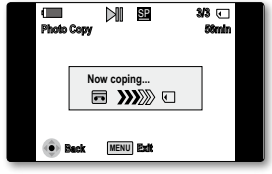


Before operation

- Insert a tape recorded in your miniDV camcorder and rewind the tape.
- Insert a memory card into your camcorder.



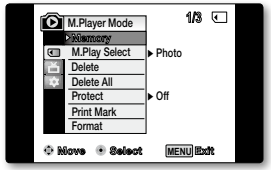
1. Set the **Select** switch to **TAPE**.
2. Press the **MODE** button to set **Player** (▶).
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Joystick (▲ / ▼)** up or down to select **"Tape"**, then press the **Joystick**.
5. Move the **Joystick (▲ / ▼)** up or down to select **"Photo Copy"**, then press the **Joystick**.
   - All photo images recorded on the cassette tape will be copied onto a memory card.
6. The camcorder automatically performs the photo image search to find photo images and copy starts.
7. Move the **Joystick** down **(▼)** to stop copying.
   - Copy stops when the cassette is finished or memory card is full.
8. Switch to the **M.Player** mode before you can see the photo image. ➥page 77
   - The last photo image of the tape-recorded will be displayed.

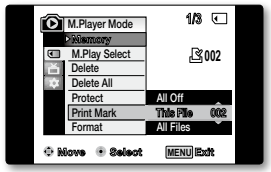


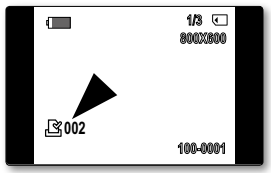
- Photo images copied from the cassette to the memory card are saved in 640x480 format.
- Even when you have copied the photo images recorded on the tape into the memory card, they still remain on the tape.

MARKING IMAGES FOR PRINTING (PRINT MARK)

- The print mark function works only in **M.Player** mode. ➥page 18
- This camcorder supports the DPOF (Digital Print Order Format) print format.
- You can automatically print images recorded on a memory card with a printer supporting DPOF.
- Be sure that the **M.Play Select** is set to **Photo** in the menu. ➥page 77
- There are 2 ways to make a print mark.
  - **"This File"**: You can set a print mark on the image displayed on the LCD screen. Up to 999 copies can be set to print of one image.
  - **"All Files"**: To print 1 copy each of all of the stored images.







1. Set the **Select** switch to **CARD**.
2. Press the **MODE** button to set **Player** (▶).
   - The last recorded image appears.
3. Move the **Joystick (◀/▶)** left or right to search for the photo image that you want to mark.
4. Press the **MENU** button.
   - The menu list will appear.
5. Move the **Joystick (▲ / ▼)** up or down to select **"Memory"**, then press the **Joystick**.
6. Move the **Joystick (▲ / ▼)** up or down to select **"Print Mark"**, then press the **Joystick**.
7. Move the **Joystick (▲ / ▼)** up or down to select the desired option **"All Off"**, **"This File"** or **"All Files"**, then press the **Joystick**.
8. If you select **"This File"**, move the **Joystick (▲ / ▼)** up or down to select the quantity, then press the **Joystick**.
9. To exit, press the **MENU** button.
   - Print mark ( ) indicator and number of prints are displayed.

Removing the Print Mark

To remove all Print Marks, select **"All Off"**.
To remove an individual file's Print Mark, select the file and set **"This File"** to **"000"**.

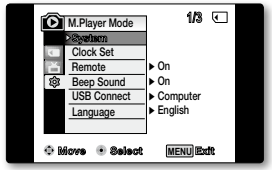
- If the Print Mark is set to **"This File"**, you can set the number of copies from **"000"** to **"999"**.
- If the Print Mark is set to **"All Files"**, you can set the number of copies to **"001"**.
- The **"All Files"** option may require extended operation time depending on the number of stored images.
- DPOF supported printers are commercially available.

pictbridge™ (SC-D383/D385 only)

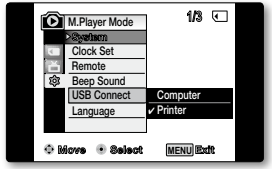
PRINTING YOUR PICTURES – USING THE PICTBRIDGE™

- PictBridge™ function works only in **M.Player** mode. ➥page 18
- By connecting the camcorder to printers with PictBridge support (sold separately), you can send images from the memory card directly to the printer with a few simple operations.
- With the PictBridge support, you can control the printer directly through your camcorder in order to print out stored pictures. For direct printing of your stored pictures using the PictBridge function, you must connect your camcorder to a PictBridge printer using a USB cable.

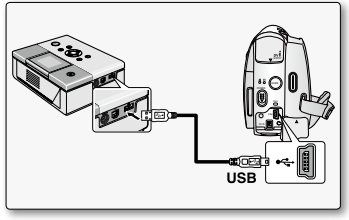
Connecting To a Printer



1. Turn your printer's power off.
2. Slide the **POWER** switch downwards to turn on the power and set the **Select** switch to **CARD.**
3. Press the **MODE** button to set **Player** (▶).
4. Press the **MENU** button.
   - The menu list will appear.
5. Move the **Joystick (▲ / ▼)** up or down to select **"System"**, then press the **Joystick**.
6. Move the **Joystick (▲ / ▼)** up or down to select **"USB Connect"**, then press the **Joystick**.



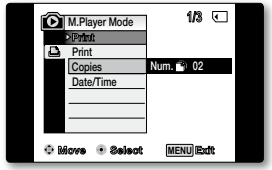
7. Move the **Joystick (▲ / ▼)** up or down to select **"Printer"**, then press the **Joystick**.
   - **"Computer"**: Connect to a computer.
   - **"Printer"**: Connect to a printer.
     (To use the PictBridge function, connect to a printer.)
8. Connect your camcorder to the printer using the provided USB cable.
9. Turn your printer power on.
   - The PictBridge menu screen appears automatically after a short period.
   - The cursor highlights **"Print"**.



Selecting Images

Move the **Joystick (◀/▶)** left or right to select an image to print.

- Each press of the **MENU** button toggles between turning PictBridge menu screen on or off.

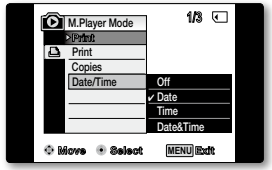


Setting the Number of Prints

1. Move the **Joystick (▲ / ▼)** up or down to select **"Copies"**, then press the **Joystick**.
2. Move the **Joystick (▲ / ▼)** up or down to set the number of prints, then press the **Joystick**.

Setting the Date/Time Imprint Option

1. Move the **Joystick (▲ / ▼)** up or down to select **"Date/Time"**, then press the **Joystick**.
2. Move the **Joystick (▲ / ▼)** up or down to select the Date/Time display type, then press the **Joystick**.
   - Date/Time display type: **"Off"**, **"Date"**, **"Time"**, **"Date&Time"**

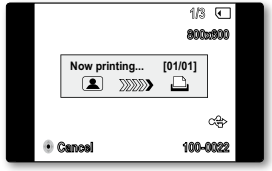


Printing Images

Move the **Joystick (▲ / ▼)** up or down to select **"Print"**, then press the **Joystick**, and selected image files will be printed.

Canceling the Printing

To cancel the image printing, press **Joystick** again.
The message **"Cancel"** appears and the image printing will be canceled.



- The Date/Time Imprint option may not be supported by all printers. Check with your printer manufacturer. The **"Date/Time"** menu cannot be setup if the printer does not support this option.
- The PictBridge™ is a registered trademark of CIPA (Camera & Imaging Products Association), an image transfer standard developed by Canon, Fuji, HP, Olympus, Seiko Epson, and Sony.
- PictBridge supporting printers are commercially available.
- Use the USB cable provided with the camcorder.
- Use the AC power adapter for your camcorder during PictBridge Direct Printing. Turning your camcorder off during printing might damage data on the memory card.
- Printing photo images is supported. Moving images are not available for printing.
- You can set various printing options depending on the printer.
- Please refer to the user's manual of the printer for details.

IEEE 1394 data transfer

TRANSFERRING IEEE1394 (I.LINK)-DV STANDARD DATA CONNECTIONS

Connecting to a DV Device (DVD Recorder, Camcorder, etc.)

- Connecting to other standard DV products.
  - A standard DV connection is quite simple.
  - If a device has a DV jack, you can transfer data from this camcorder to it by connecting to the DV jack using the correct DV cable (not supplied).
  - This camcorder has a 4-pin jack. To connect to a DV device (such as a DVD camcorder) which has a 6-pin jack, use a DV 4-pin-to-6pin cable. To connect to another device which has a 4-pin jack, use a DV 4-pin-to-4pin cable.
- With a digital connection, video and audio signals are transmitted in digital format, allowing high quality images to be transferred.

Connecting to a PC

- If you want to transmit data to a PC, you must install an IEEE 1394 add-on card into the PC. (not supplied)
- The frame rate for moving images is dependent on the capacity of the PC.

System Requirements

- CPU: faster Intel® Pentium III™ 450MHz compatible.
- Operating system: Windows® 98SE, ME, 2000, XP, VISTA, Mac OS (9.1~10.4)
- Main memory: more than 64 MB RAM
- IEEE1394 add-on card or built in IEEE1394 card

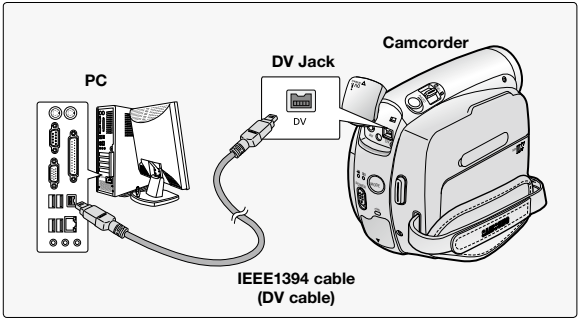
- Operation is not guaranteed for all the recommended computer environments mentioned above.
- IEEE 1394 is an international standard standardized by the Institute of Electrical and Electronics Engineers.
- A DV device that does not comply with the DV standard specification may not supported. Refer to the product documentation of the device to be connected for further details on notes and compatible software applications.

WARNING

Please be careful since there are two types of DV jacks (4pin, 6pin). This camcorder has a 4pin jack.

Recording with a DV Connection Cable

1. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)
2. Press the **MODE** button to set **Player** (▶).
3. Connect the DV cable (not supplied) from the DV jack of the camcorder to the DV jack of the other DV device.
   - Make sure that (DV) is displayed.
4. Press the **Recording start/stop** button to begin REC PAUSE mode.
   - **"PAUSE"** is displayed.
5. Start playback on the other DV device while you monitor the picture.
6. Press the **Recording start/stop** button to start recording.
   - If you want to pause recording momentarily, press the **Recording start/stop** button again.
7. To stop recording, move the **Joystick** down **(▼)**.



- When you transmit data from the camcorder to another DV device, some functions may not work. If this occurs, please reconnect the DV cable or turn the power OFF and ON again.
- When you transmit data from the camcorder to PC, PC function button is not available in **M.Player** mode. (SC-D383/D385 only)
- Do not use another DV device when using IEEE1394.
- Do not connect the camcorder to a PC using both DV and USB (SC-D383/D385 only) cables. It may not operate properly.
- The IEEE1394 cable (DV cable) is sold separately.
- Moving image software is commercially available.
- Most DV enabled PCs have a 6 pin jack. In this case, a 6pin/4pin cable is required for the connection.
- Most DV enabled notebooks and Laptops have a 4 pin socket. Use a 4pin/4pin cable for the connection.
- DIS and C.Nite features are not available when in DV (IEEE1394) mode. If DV (IEEE1394) mode is set, DIS and C.Nite modes will be released.
- Search (Forward/Reverse) (camera mode) is not available when in DV (IEEE1394) mode.
- When using this camcorder as a recorder, the pictures that appear on a monitor may seem uneven, however recorded pictures will not be affected.

USB interface (SC-D383/D385 only)

USING USB INTERFACE

Transferring a Digital Image through a USB Connection

- The camcorder supports both USB 1.1 and 2.0 standards. (Depends on the PC specification)
- You can transfer a recorded file on a Memory Card to your PC via a USB connection.
- If you transfer data to a PC, you need to install the software (DV Driver, Video Codec, DirectX 9.0) supplied with the Camcorder.

USB Connection Speed depending on the System

High speed USB connection is supported by Microsoft (Windows) device drivers only.

- Windows 2000 - High speed USB on a system with Service Pack 4 or later installed.
- Windows XP - High speed USB on a system with Service Pack 1 or later installed.
- Windows VISTA - High speed USB on a system with Service Pack 1 or later installed.

System Requirements

	Windows System
CPU	Intel® Pentium 4™, 2GHz
OS(Operating System)	Windows® 2000/XP/VISTA * Standard installation is recommended. Operation may not assured if the above OS has been upgraded.
Memory	512MB
HDD capacity	2GB or more
Resolution	1024 x 768 dots 24bit Color
USB	USB2.0 High Speed

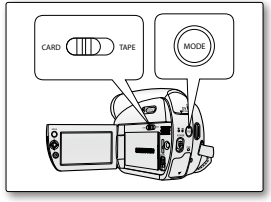
- USB interface is not supported on Macintosh operating systems.
- System requirements mentioned above are recommendations. Even on a system that satisfies the requirements may not ensure the operation depending on the system.

- On a slower PC than recommended, movie playback may not be smooth or video editing may take a long time.
- On a slower PC than recommended, movie playback may skip frames or operate unexpectedly.
- Intel® Pentium III™ or Pentium 4™ is a trademark of the Intel Corporation.
- Windows® is a registered trademark of the Microsoft® Corporation.
- All other brands and names are property of their respective owners.
- Operations are not guaranteed for all of the recommended computer environments mentioned above.
- Do not connect the camcorder to a PC using both DV and USB cables. It may not operate properly.
- In **M.Cam** or **M.Player** mode, be sure that the memory card is inserted into camcorder before connecting USB cable.
- If no memory card or an unformatted memory card is inserted, the PC will not recognize your camcorder as a removable disk.
- If you disconnect the USB cable from the PC or the camcorder during the data transfer, the data transfer will stop and the data may be damaged.
- If you connect the USB cable to a PC using a USB HUB or with other devices at the same time, it may cause conflict and may not work properly. If this occurs, remove all other USB devices and try the connection again.

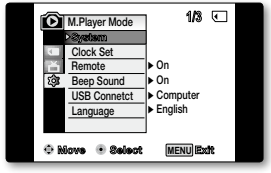
USB interface (SC-D383/D385 only)

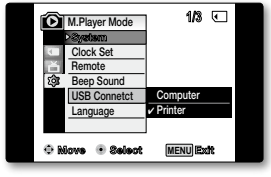
SELECTING THE USB DEVICE (USB CONNECT)

- USB connect function works only in **M.Player** mode. ➥page 18
- Using the USB cable, you can connect your camcorder to a computer to copy your moving images and photo images from the memory card, or to a printer to print your images.



1. Set the **Select** switch to **CARD**.
2. Press the **MODE** button to set **Player** (▶).
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Joystick (▲ / ▼)** up or down to select **"System"**, then press the **Joystick**.
5. Move the **Joystick (▲ / ▼)** up or down to select **"USB Connect"**, then press the **Joystick**.
6. Move the **Joystick (▲ / ▼)** up or down to select **"Computer"** or **"Printer"**, then press the **Joystick**.
   - You can select **"Computer"** to use the camcorder as a PC camera, USB Stream or removable disk.
   - You can select **"Printer"** to use the Pictbridge feature. ➥page 88
7. To exit, press the **MENU** button.





INSTALLING THE SOFTWARE (DV MEDIA PRO PROGRAM)

You need to install DV Media Pro to play back recorded movie files from this miniDV camcorder with the USB cable on your PC.

- You have to install **"DV Driver", "Video Codec"** and **"DirectX 9.0"** to run DV Media Pro properly.
- For moving images playback on a PC, install software in this order :**DV Driver - DirectX 9.0 - Video Codec**
- For PC camera install software in this order: **DV Driver - DirectX 9.0 - Video Codec**

Before you start!

- Turn on your PC. Exit all other applications that are running.
- Insert the provided CD into your PC's CD-ROM drive.
  - The setup screen appears automatically soon after the CD was inserted.
    If the setup screen does not appear, click on "Start" on the bottom left corner and select "Run" to display a dialog. Type "D:\autorun.exe" and then press ENTER, if your CD-ROM drive is mapped to "D:Drive".

Installing Driver - DV Driver and DirectX 9.0

- DV Driver is a software driver that is required to support connection to a PC.
  (If it is not installed, some functions will not be supported.)

1. Click on "DV Driver" on the setup screen.
- Driver software required is installed automatically. The following drivers will be installed:
  - USB PC-Camera driver

2. Click on "Confirm" to finish driver installation.

3. If the "DirectX 9.0" is not installed, it is installed automatically after setting "DV Driver".
- After installing DirectX 9.0, PC needs to be restarted.
- If DirectX 9.0 is installed already, there is no need to restart the PC.

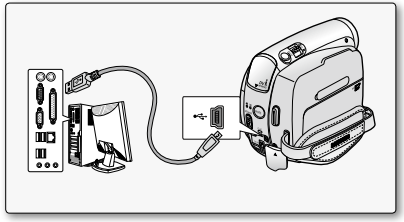
Application Installation - Video Codec

- Click on "Video Codec" on the setup screen.
  Video Codec is required to play movie files recorded by this miniDV camcorder on a PC.

- Please install by using the Software CD that came with this camcorder. We do not guarantee compatibility with other CDs.
- During installation, if the Microsoft LOGO test warning is shown, just click 'Continue(C).'
- If a message saying "Digital Signature not found" or something similar appears, ignore the message and continue with the installation.

USB interface (SC-D383/D385 only)

CONNECTING TO A PC



1. Connect a USB cable to the USB jack on the PC.
   - If a USB cable is connected to the camcorder's USB jack, the Audio/Video cable is disabled.
2. Connect the other end of the USB cable into the USB jack on the camcorder. (USB jack)

Disconnecting the USB Cable

- After completing the data transmission, you must disconnect the cable in the following way:

1. Click the "Unplug or eject hardware" icon on the task tray of your computer.
2. Select "USB Mass Storage Device" or "USB Disk," and then click "Stop."
3. Click "OK."
4. Disconnect the USB cable from the miniDV camcorder and PC.

- If you disconnect the USB cable from the PC or the camcorder while transferring, the data transmission will stop and the data may be damaged.
- If you connect the USB cable to a PC via a USB HUB or simultaneously connect the USB cable along with other USB devices, the camcorder may not work properly. If this occurs, remove all USB devices from the PC and reconnect the camcorder.

Using the Removable Disk Function

- This function works in both **M.Cam** and **M.Player** modes. ➥page 18.
- You can easily transfer data from a memory card to a PC without additional cards via a USB connection.

1. Set the **Select** switch to **CARD**.
2. Press the **MODE** button to set **Camera** ( ) or **Player** ( ).
3. Connect one end of the USB cable to the USB jack on the camcorder and the other end to the USB jack on your computer.
4. To verify whether the removable disk has been properly recognized, open Windows Explorer and locate the removable disk.
   - You can copy the movie and photo images to your PC and play them back.

Using the PC camera Function

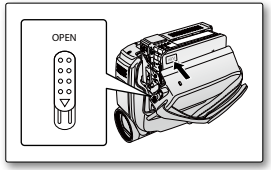
- This function works only in **Camera** mode. ➥page 18
- To use the PC camera function, DV Driver, Video Codec and DirectX 9.0 programs must be installed in the PC. ➥page 95
- When you connect to a web site that provides video chatting functions, you can use your camcorder to participate.
- When using this camcorder for video conferencing (such as net meeting), voice communication may not be supported depending on the video conferencing software. In this case, connect an external microphone to the soundcard of the PC to enable voice communication.
- When using the camcorder with PC Net Meeting Program installed on your PC, you can participate in a video conference.
- The PC camera's screen size (Transferred video frame rate for the PC camera function is max 15 fps.)
  - 640X480 (VGA) pixels for USB 2.0 connection.

1. Set the **Select** switch to **TAPE**.
2. Press the **MODE** button to set **Camera** ( ).
3. Connect one end of the USB cable to the USB jack on the camcorder and the other end to the USB connector on your computer.
   - Run a video chatting application such as Windows Messenger and enjoy the video utilization.
   - Various applications take advantage of the PC Cam function. Refer to respective product documentation for further details.

- While the PC camera is in use, the 16:9 wide mode is not supported.
  The screen displays in the aspect ratio of 4:3.
- If PC is connected with the USB to the camcorder, only the **POWER** switch, **Select** switch, **Zoom** lever and **Joystick (▲ / ▼)** can be operated. (PC camera)

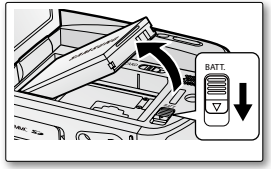
AFTER FINISHING A RECORDING

- At the end of a recording you must remove the power source.
- When recording with a battery pack, leaving the pack on the camcorder can reduce the life span of the battery.



The battery pack should be release after recording is completed.

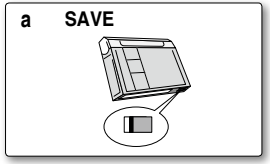
1. Open the cassette compartment cover while sliding the **OPEN** switch in the direction or the arrow.
   - Pull the cassette compartment out automatically.
   - Please wait while the tape is completely ejected.
2. After removing the tape, close the compartment cover and store the camcorder in a dust free environment. Dust and other foreign materials can cause square-shaped noise or jerky images.
3. Turn the miniDV camcorder off.
4. Disconnect the power source or remove the battery pack.
   - Open the LCD panel of the camcorder and slide down the **BATT.** Release switch, on the left side of the body, to remove the battery with a click.

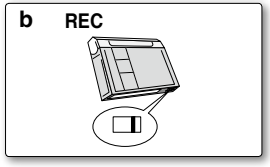


USABLE CASSETTE TAPES

When you have recorded something that you wish to keep, you can protect it so that it will not be accidentally erased.

a. Protecting a tape: Push the safety tab on the cassette so that the hole is uncovered.
b. Removing the tape protection:
   If you no longer wish to keep the recording on the cassette, push the safety tab back so that it covers the hole.





How to store a tape

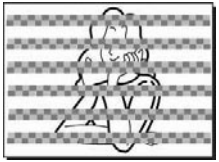
a. Avoid places with magnets or magnetic interference.
b. Avoid humidity and dust prone places.
c. Keep the tape in an upright position and avoid storing it in direct sunlight.
d. Avoid dropping or knocking your tapes.

CLEANING AND MAINTAINING THE CAMCORDER

Cleaning the Video Heads

- To ensure normal recording and clear pictures when recording on tape, clean the video heads when the playback pictures display square block-shaped noise or distortion, or a blue screen appears.
- This function works only in **Player** mode. ➥page 18

1. Set the **Select** switch to **TAPE**. (SC-D383/D385 only)



(blue screen)

2. Press the **MODE** button to set **Player** (▶).

3. Insert a cleaning tape.

4. Press the **Joystick**.

5. Move the **Joystick** down **(▼)** after 10 seconds.

- Check the quality of the picture using a video cassette.
  - If the picture quality has not improved, repeat the operation.
- Clean the video heads with a dry type cassette cleaner.
- Some cleaning cassette products stop automatically. Refer to the cleaning cassette's instructions for detailed information. If the problem continues after the cleaning, consult your nearest Samsung dealer or Authorized Service Center. (blue screen)

USING YOUR MINIDV CAMCORDER ABROAD

- Each country or region has its own electric and color systems.
- Before using your miniDV camcorder abroad, check the following items.

Power sources

The provided AC adaptor features automatic voltage selection in the AC range from 100 V to 240 V.
You can use your camcorder in any countries/regions using the AC power adaptor supplied with your camcorder within the AC 100 V to 240 V, 50/60 Hz range.
Use a commercially available AC plug adaptor, if necessary, depending on the design of the wall outlet.

On TV color systems

Your camcorder is an **NTSC**-system-based camcorder.
If you want to view your recordings on a TV or to copy it to an external device, it must be an **NTSC**-system-based TV or an external device and have the appropriate Audio/Video jacks. Otherwise, you may need to use a separate video format transcoder (NTSC-PAL format converter).

NTSC-compatible countries/regions
Bahamas, Canada, Central America, Japan, Korea, Mexico, Philippines, Taiwan, United States of America, etc.

PAL-compatible countries/regions
Australia, Austria, Belgium, Bulgaria, China, CIS, Czech Republic, Denmark, Egypt, Finland, France, Germany, Greece, Great Britain, Netherlands, Hong Kong, Hungary, India, Iran, Iraq, Kuwait, Libya, Malaysia, Mauritius, Norway,Romania, Saudi Arabia, Singapore, Slovak Republic, Spain, Sweden, Switzerland, Syria, Thailand, Tunisia, etc.

You can make recordings with your miniDV camcorder and view pictures on the LCD screen from anywhere in the world.

TROUBLESHOOTING

- Before contacting a Samsung authorized service center, perform the following simple checks. They may save you the time and expense of an unnecessary call.

Self Diagnosis Display

Display	Blinking	Informs that...	Action
	slow	The battery pack is almost discharged.	Change to a charged one.
Tape end!	slow	When the remaining time on the tape is about 2 minutes.	Prepare a new one.
Tape end!	no	The tape reached its end.	Change to a new one.
No Tape!	slow	There is no tape in camcorder.	Insert a tape.
Protection!	slow	The tape is protected from recording.	If you want to record, release the protection.
▲ ....D L C R	slow	The camcorder has some mechanical fault.	1. Eject the tape. 2. Turn the camcorder off. 3. Eject the battery pack. 4. Insert the battery pack. * If unresolved contact your local Samsung service center.
	slow	Moisture condensation has formed in the camcorder.	See page 102

Self Diagnosis Display in M.Cam/M.Player Modes (SC-D383/D385 only)

Display	Blinking	Informs that...	Action
No Memory Card!	slow	There is no memory card in the camcorder.	Insert a memory card.
Memory full!	slow	There is not enough memory to record.	Change to a new memory card. Erase recorded image.
No image!	slow	There are no images recorded on the memory card.	Record new images.
Write protect!	slow	The memory card is record protected.	Release the write protect tab on the memory card.
Protect!	slow	You tried to delete a protected image.	Cancel the image protection.
Read error!	slow	The camcorder can not play back.	Format the memory card or insert a memory card recorded on this camcorder.
Write error!	slow	The camcorder can not record.	Format the memory card or change to a new memory card.
Not formatted!	slow	The memory card needs to be formatted.	Format a memory card. (see page 81)
Now deleting...	slow	When progressing file delete.	Wait until deleting is finished.
Memory Card Error!	slow	The inserted memory card is not recognized by the camcorder.	Eject and re-insert the memory card. Try another memory card.

troubleshooting

- If these instructions do not solve your problem, contact Samsung customer service at 1-800-SAMSUNG.

Symptom	Explanation/Solution
You cannot switch the camcorder on.	Check the battery pack or the AC Power adapter.
Recording start/stop button does not operate while recording.	Press the **MODE** button to set **Camera** ( ). You have reached the end of the cassette. Check the record protection tab on the cassette.
The camcorder shuts off automatically.	You have left the camcorder set to STBY for more than 5 minutes without using it. The battery pack is fully exhausted.
Charge runs out quickly.	The atmospheric temperature is too low. The battery pack has not been charged fully. The battery pack is completely dead, and cannot be recharged, Use another battery pack.
You see a blue screen during playback.	The video heads may be dirty. Clean the heads with a cleaning tape.
A vertical strip appears on the screen when recording a dark background.	The contrast between the subject and the background is too great for the camcorder to operate normally. Make the background bright to reduce the contrast or use the BLC function while you are recording in bright surroundings. ➥page 56
Auto focus does not work.	Check the Manual Focus menu. Auto focus does not work in the Manual Focus mode. ➥page 42
FF or REW, Play function **Joystick (◀/▶)** does not work.	Press the **MODE** button to set **Player** ( ). You have reached the beginning or end of the cassette.
You see a mosaic pattern during playback search.	This is normal operation and it is not a failure or defect. The tape may be damaged. Replace the tape. Cleaning the video heads ➥page 99

Moisture Condensation

- If the camcorder is brought directly from a cold place to a warm place, moisture may condense inside the camcorder, on the surface of the tape, or on the lens. In this condition, the tape may stick to the head drum and be damaged or the unit may not operate correctly.
  To prevent possible damage under these circumstances, the camcorder is fitted with a moisture sensor.
- If there is moisture inside the camcorder, (DEW) is displayed.
  If this happens, none of the functions except cassette ejection will work.
  Open the cassette compartment and remove the battery.
  Leave the camcorder for at least two hours in a dry warm room.

SETTING MENU ITEMS

Main Menu	Sub Menu	Functions	Available Mode				Page
			Camera Mode	Player Mode	M.Cam Mode ②	M.Player Mode ②	
Camera	Program AE	Selecting the Program AE Function	✔				47, 48
	White Balance	Setting the White Balance	✔		✔		49 ,50
	Visual Effect	Setting the Digital special effect	✔				51, 52
	16:9 Wide	Setting the 16:9 Wide Function	✔				53
	Macro	Setting the Macro Function	✔		✔		54
	DIS	Selecting the Digital Image Stabilizing	✔				55
	BLC	Setting the BLC Function	✔		✔		56
	Digital Zoom	Selecting the Digital Zoom	✔				57
	C.Nite	Selecting the Color Nite	✔				58
	Light ①	Selecting the Light	✔		✔		59
Tape	Photo Search	Searching pictures recorded on a tape		✔			61
	Photo Copy	Copying photo images from a cassette to memory card		✔			86
	Audio Select	Selecting the Audio playback channel		✔			66
	Audio Effect	Selecting the Audio Effect		✔			67
Record	Rec Mode	Selecting the recording speed	✔	✔			44
	Audio Mode	Selecting Sound Quality for recording	✔	✔			44
	WindCut Plus	Minimizing wind noise	✔	✔			45
	Real Stereo	Selecting the Real Stereo	✔				46
Memory ②	File No.	File Numbering Options			✔		75
	M.Play Select	Selecting Storage Media (Photo, Movie) to playback				✔	84
	Delete	Deleting Files				✔	79
	Delete All	Deleting All files				✔	80
	Protect	Preventing Accidental Erasure				✔	78
	Print Mark	Print images recorded on a memory card				✔	87
	Format	Formatting the memory card				✔	81

troubleshooting

SETTING MENU ITEMS

Main Menu	Sub Menu	Functions	Available Mode				Page
			Camera Mode	Player Mode	M.Cam Mode ②	M.Player Mode ②	
Display	Guideline	Setting the Guideline	✔		✔		30
	LCD Bright	Setting the Brightness tone of the LCD Screen	✔	✔	✔	✔	31
	LCD Color	Setting the Color tones of the LCD Screen	✔	✔	✔	✔	31
	Date/Time	Setting the Date and Time	✔	✔	✔	✔	32
	TV Display	Selecting OSD on/off of TV	✔	✔	✔	✔	33
System	Clock Set	Setting the Clock Set	✔	✔	✔	✔	24
	Remote ③	Using the remote control	✔	✔	✔	✔	25
	Beep Sound	Setting the Beep sound	✔	✔	✔	✔	26
	Shutter Sound	Setting the Shutter sound	✔	✔	✔		27
	USB Connect ②	Setting the USB				✔	94
	Language	Selecting the OSD language	✔	✔	✔	✔	28
	Demonstration	Demonstration	✔				29

① : SC-D382/D383/D385 only
② : SC-D383/ D385 only
③ : SC-D382/D385 only

ABOUT THIS USER MANUAL

- **This user manual covers models SC-D381, SC-D382, SC-D383 and SC-D385.**
  Although the external appearances of SC-D381, SC-D382, SC-D383 and SC-D385 are different, they operate in the same way.
- Illustrations of model SC-D385 are used in this user manual.
- The displays in this user manual may not be exactly the same as those you see on the LCD screen.
- Designs and specifications of the camcorder and other accessories are subject to change without any notice.
- The models, SC-D381/D382 use Tape exclusively. The models, SC-D383/D385 have two storage media, Tape and Card.

specifications

MODEL NAME: SC-D381/ SC-D382 / SC-D383/ SC-D385

System	
Video signal	NTSC
Video recording system	2 rotary heads, Helical scanning system
Audio recording system	Rotary heads, 12/16b PCM system
Usable cassette	Digital video tape (6.35mm width): Mini DV cassette
Tape speed	SP: approx. 18.83mm/s LP: approx. 12.57mm/s
Tape recording time	SP: 60 minutes (when using DVM 60), LP: 90 minutes (when using DVM 60)
FF/REW time	Approx. 150 sec. (using DVM60 tape)
Image device	CCD (Charge Coupled Device) : 680K Pixels
Lens	F1.6 34x,1200x (Digital) Electronic zoom lens
Filter diameter	Ø30
LCD Screen	
Size/dot number	2.7inch 112K
LCD Screen Method	TFT LCD
Connectors	
Video output	1Vp-p (75Ω terminated)
Audio output	-7.5dBs (600Ω terminated)
DV input/output	4pin special in/out connector
USB output (SC-D383/D385 only)	Mini-B type connector (USB2.0 High Speed)
General	
Power source	DC 8.4V, Lithium Ion Battery Pack 7.4V
Power source type	Battery Pack, Power supply (100V~240V) 50/60Hz
Power consumption (Recording)	3.7W
Operating temperature	0˚~40˚C (32˚F~104˚F)
Storage temperature	-20˚C ~ 60˚C (-4˚F ~ 140˚F)
External dimension	Height : 2.40" (61mm), Length : 3.74" (95mm), Width : 4.40" (112mm)
Weight	340g (0.75lb) (Except for Battery Pack and tape)
Internal Microphone	Omni-directional stereo microphone
Remote control (SC-D382/D385 only)	Indoors: greater than 49ft (15m) (straight line), Outdoors: about 16.4ft (5m) (straight line)

- The technical specifications and design may be changed without notice.

Warranty

SAMSUNG
LIMITED WARRANTY

SAMSUNG Electronics America Inc. (SEA), warrants that this product is free from defective material and workmanship.
SEA further warrants that if product fails to operate properly within the specified warranty period and the failure is due to improper workmanship or defective material, SEA will repair or replace the product at it's option.
All warranty repairs must be performed by a SEA authorized service center. The name and address of the location nearest you can be obtained by calling toll free: 1-800 SAMSUNG (1-800-726-7864).
Labor
90 days carry-in
Parts
1 year

On carry-in models, transportation to and from the service center is the customer's responsibility.

The original dated sales receipt must be retained by the customer and is the only acceptable proof of purchase.
It must be presented to the authorized service center.

EXCLUSIONS (WHAT IS NOT COVERED)

This warranty does not cover damage due to accident, fire, flood and/or other acts of God; misuse, incorrect line voltage, improper installation, improper or unauthorized repairs, commercial use, or damage that occurs in shipping.
Exterior and interior finish, lamps, and glass are not covered under this warranty.
Customer adjustments which are explained in the instruction manual are not covered under the terms of this warranty. This warranty will automatically be voided for any unit found with a missing or altered serial number. This warranty is valid only on products purchased in the United States and Puerto Rico.

Some States do not allow the exclusions or limitations of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.
This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center Samsung Electronics America, inc.

1-800-SAMSUNG (726-7864)

www.samsung.com

RoHS compliant

Our product complies with “The Restriction Of the use of certain Hazardous Substances in electrical and electronic equipment”, and we do not use the 6 hazardous materials- Cadmium(Cd), Lead (Pb), Mercury (Hg), Hexavalent Chromium (Cr +6), Poly Brominated Biphenyls (PBBs), Poly Brominated Diphenyl Ethers(PBDEs)- in our products.

Code No. AD68-02562A - 00